LG

CT-29K30E

MODEL

SERVICE MANUAL

ADJUSTMENT

■ Safety Precautions

1. It is safe to adjust after using insulating transformer between the power supply line and chassis input to prevent the risk of electric shock and protect the instrument.
2. Never disconnect leads while the TV receiver is on.
3. Don't short any portion of circuits while power is on.
4. The adjustment must be done by the correct appliances. But this is changeable in view of productivity.
5. Unless otherwise noted, set the line voltage to 230Vac±10%, 50Hz.

■ Test Equipment required

1. RF signal generator (with pattern generator)
2. DC Power Supply
3. Multimeter (volt meter)
4. Oscilloscope
5. Color analyzer

• RF AGC (Automatic Gain Control) Adjustment

Test Point	**: AGC TP (J2)**
Adjust	**: Remote Control**

The RF AGC was aligned at the time of manufacture for optimum performance over a wide range conditions. Readjustment of RF AGC should not be necessary unless unusual local conditions exist, such as ;

1) Channel interference in a CATV system.
2) Picture bending and/or color beats, which are unusually due to excessive RF signal input when the receiver is too close to a transmitting tower or when the receiver is connected to an antenna distribution system where the RF signal has been amplified. In this case, the input signal should be attenuated (with pad or filter) to a satisfactory level.
3) Picture noise caused by "broadcast noise" or weak signal. If the broadcast is "clean" and the RF signal is at least 1mV (60dBu), the picture will be noise free in any area.

Adjusting RF AGC to one end of rotation will usually cause a relatively poor signal to noise ratio;
Adjusting to the other end of rotation will usually cause a degradation of over load capabilities resulting in color beats or adjacent channel interference.

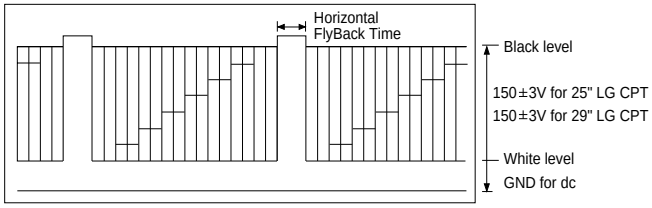
Adjustment

1. Connect RF signal (60dB±1dB) and turn on the TV.
2. Press OK buttons on TV set and Remote Controller at the same time to get into SVC mode.
3. Press Channel UP/DOWN button on the Remote Controller several times to find AGC .
4. Press Volume UP/DOWN button until the AGC Voltage is 2.5±0.1V.
5. Press OK(■) button to memorize the data.

• Screen Voltage Adjustment

Test Point	**: RK (Red Cathode of CPT Board)**
Adjust	**: Screen Control of FBT**

1) Tune the TV set to receive a color bar pattern.
2) Press PSM (RED) button on remote controller. (standard picture)
3) Connect the probe of oscilloscope to the RK (Red Cathode) of CPT Board.
4) Adjust Screen Volume of FBT so that the waveform is the same as below figure.



The waveform of RK(Red Cathode) of CPT Board

• Focus Adjustment

NOTE: This adjustment should be performed after warming up for 10 minutes.

Test Point	**: Observing Display**
Adjust	**: Focus control of FBT**

1) Tune the TV set to receive an inactive channel station.
2) Adjust the Focus control of FBT for best overall focus.

• Deflection Data Adjustment (Line SVC-1)

NOTE: To enter SVC mode, press "OK" buttons on both TV set and the Remote control at the same time.

1. Preparation for Deflection Adjustment

1) At SVC mode, press the Yellow colored button.
   If the Remote Controller doesn't have the Yellow button, you should use a Service Remote Control (105-201G) and press SVC button.
   And then, deflection data adjustment OSD (SVC1 mode) will be displayed.
2) Press Channel UP/DOWN button for desirous function Adjustment.
3) Press Volume UP/DOWN button to adjust the data.

2. Deflection Adjustment Procedure

1) Vertical Adjustment
Select VS and adjust until the mechanical center of CPT and that of screen coincides and select VA and adjust to coincide the inner circle of screen with outer frame of CPT.

2) Horizontal Adjustment
Select HS and adjust until the mechanical center of CPT and that of screen coincides.

3) Vertical S Correction Adjustment
Select SC and adjust until top-bottom side pincushion are equal.

4) Press OK(■) button to memorize the data.

3. Deflection Initial Setup Data

Status	Default	25" LG	29" LG
VL	35	34	36
VS	20	31	38
VA	43	32	30
HS	31	33	30
SC	10	13	13
EW	39	37	47
EP	22	25	25
EC	23	09	30
ET	32	30	30

• White Balance Adjustment.(LINE SVC-0)

NOTE : This adjustment should be performed after screen voltage adjustment.

1) Tune the TV set to receive an 100% white pattern.
2) Press OK(■) buttons on TV set and remote controller at the same time to get into SVC mode.
3) Press PSM (RED) button on remote controller. (Standard picture)
4) Press Channel UP/DOWN button for desirous function adjustment.
5) Adjust VOL+ or VOL- button for GG031.
6) Adjust VOL+ or VOL-button in each status of "Rg--"/"Bg--" for X=282±8, Y=289±8 with color analyzer.
7) Press OK(■) button to memorize the adjustment data.

Status	Adjustment	Initial Data	25" LG	29" LG
RG	R-Drive	35	32	32
GG	G-Drive	31	31	31
BG	B-Drive	27	27	27

• OPTION Adjustment (SVC MODE:OPTION-1, OPTION-2, OPTION-3)

NOTE: When the EEPROM has been replaced, the Option data should be restored as the function of individual system and specification.

1) Press OK buttons on both TV set and Remote Controller at the same time to get into SVC mode.
2) Press the Yellow button several times to find OPTION-1, OPTION-2 or OPTION-3.
3) Input the correspond OPTION data referring to Table below with the numeric buttons 0~9.

Table 1. OPTION 1 Function

Option	Code	Function	Remark
SYSTEM	00	BG+I+DK	W/O RF 3.58(CF-, CZ-)
	01	BG+I+DK+M	with RF3.58(CT-, CD-)
	10	BG ONLY	Single SYSTEM(CA-)
	11	BG ONLY+DUAL	South East Asian DUAL
SCART	0	PHONO JACK (AV1)	
	1	SCART JACK (AV1)	with RGB Input
AV2	0	W/O AV2 (Front)	TOOL Option
	1	with AV2 (Front)	
TILT	0	W/O TILT	Basic function for Chinese and Australian Model
	1	with TILT	
COMB FILTER	0	W/O DCF	Option
	1	with DCF	

Table 2. Specifications for OPTION-1 data

OPTION Data	COMB	TILT	AV2	SCART	SYSTEM
0	0	0	0	0	00
1	0	0	0	0	01
2	0	0	0	0	10
3	0	0	0	0	11
4	0	0	0	1	00
5	0	0	0	1	01
6	0	0	0	1	10
7	0	0	0	1	11
8	0	0	1	0	00
9	0	0	1	0	01
10	0	0	1	0	10
11	0	0	1	0	11
12	0	0	1	1	00
13	0	0	1	1	01
14	0	0	1	1	10
15	0	0	1	1	11
16	0	1	0	0	00
17	0	1	0	0	01
18	0	1	0	0	10
19	0	1	0	0	11
20	0	1	0	1	00
21	0	1	0	1	01
22	0	1	0	1	10
23	0	1	0	1	11
24	0	1	1	0	00
25	0	1	1	0	01
26	0	1	1	0	10
27	0	1	1	0	11
28	0	1	1	1	00
29	0	1	1	1	01
30	0	1	1	1	10
31	0	1	1	1	11
32	1	0	0	0	00
33	1	0	0	0	01
34	1	0	0	0	10
35	1	0	0	0	11
36	1	0	0	1	00
37	1	0	0	1	01
38	1	0	0	1	10
39	1	0	0	1	11
40	1	0	1	0	00
41	1	0	1	0	01
42	1	0	1	0	10
43	1	0	1	0	11
44	1	0	1	1	00
45	1	0	1	1	01
46	1	0	1	1	10
47	1	0	1	1	11
48	1	1	0	0	00
49	1	1	0	0	01
50	1	1	0	0	10
51	1	1	0	0	11
52	1	1	0	1	00
53	1	1	0	1	01
54	1	1	0	1	10
55	1	1	0	1	11
56	1	1	1	0	00
57	1	1	1	0	01
58	1	1	1	0	10
59	1	1	1	0	11
60	1	1	1	1	00
61	1	1	1	1	01
62	1	1	1	1	10
63	1	1	1	1	11

Table 3. OPTION 2 Function

Option	Code		Function	Remark
FFI/CK	0	0	W/O FFI/CK	
	0	1	W/O FFI	
	1	0	W/O CK	
	1	1	With FFI/CK	
CHINA	0		W/O Chinese NICAM	
	1		Chinese NICAM	Chinese Models Only
LANG.	0		Multi Language	
	1		English Only	
HOTEL	0		W/O HOTEL option	for Buyer's request
	1		for HOTEL	
EYE	0		W/O EYE	
	1		With EYE Function	

Table 4. Specifications for OPTION-2 data

OPTION Data	HOTEL	EYE	CK	FFI	CHINA	LANG.
0	0	0	0	0	0	0
1	0	0	0	0	0	1
2	0	0	0	0	1	0
3	0	0	0	0	1	1
4	0	0	0	1	0	0
5	0	0	0	1	0	1
6	0	0	0	1	1	0
7	0	0	0	1	1	1
8	0	0	1	0	0	0
9	0	0	1	0	0	1
10	0	0	1	0	1	0
11	0	0	1	0	1	1
12	0	0	1	1	0	0
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20	0	1	0	1	0	0
21	0	1	0	1	0	1
22	0	1	0	1	1	0
23	0	1	0	1	1	1
24	0	1	1	0	0	0
25	0	1	1	0	0	1
26	0	1	1	0	1	0
27	0	1	1	0	1	1
28	0	1	1	1	0	0
29	0	1	1	1	0	1
30	0	1	1	1	1	0
31	0	1	1	1	1	1
32	1	0	0	0	0	0
33	1	0	0	0	0	1
34	1	0	0	0	1	0
35	1	0	0	0	1	1
36	1	0	0	1	0	0
37	1	0	0	1	0	1
38	1	0	0	1	1	0
39	1	0	0	1	1	1
40	1	0	1	0	0	0
41	1	0	1	0	0	1
42	1	0	1	0	1	0
43	1	0	1	0	1	1
44	1	0	1	1	0	0
45	1	0	1	1	0	1
46	1	0	1	1	1	0
47	1	0	1	1	1	1
48	1	1	0	0	0	0
49	1	1	0	0	0	1
50	1	1	0	0	1	0
51	1	1	0	0	1	1
52	1	1	0	1	0	0
53	1	1	0	1	0	1
54	1	1	0	1	1	0
55	1	1	0	1	1	1
56	1	1	1	0	0	0
57	1	1	1	0	0	1
58	1	1	1	0	1	0
59	1	1	1	0	1	1
60	1	1	1	1	0	0
61	1	1	1	1	0	1
62	1	1	1	1	1	0
63	1	1	1	1	1	1

Table 5. OPTION 3 Function

Option	Code	Function
INCH.	0	25"
	1	29"
GAME	0	W/O GAME
	1	With GAME
VOL	0	Standard
	1	South East Asia

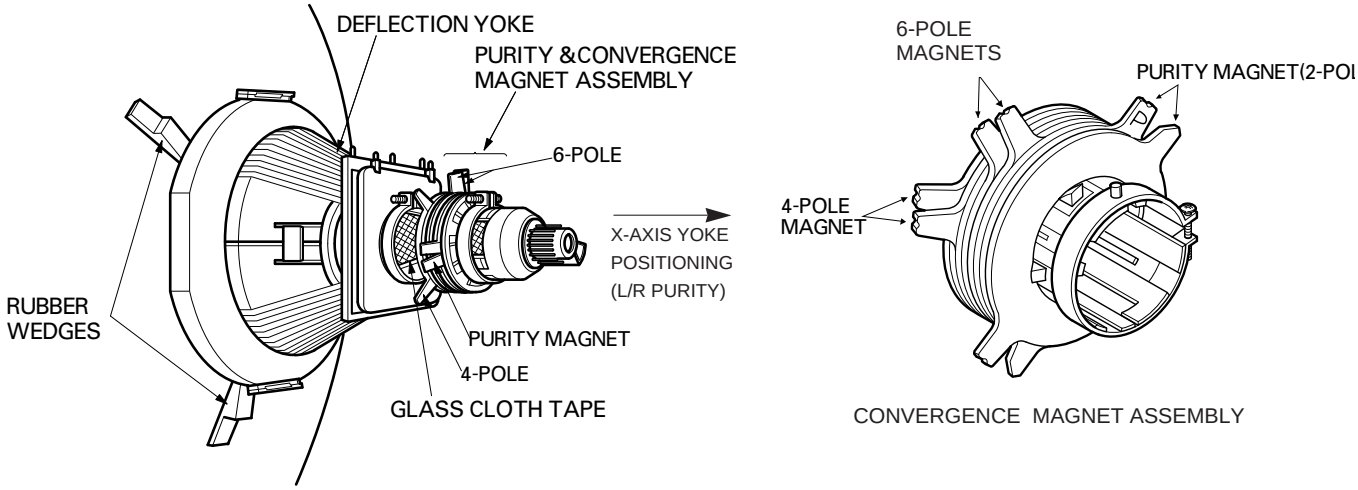
Option Data	Vol	Game	INCH.
0	0	0	0
1	0	0	1
2	0	1	0
3	0	1	1
4	1	0	0
5	1	0	1
6	1	1	0
7	1	1	1

PURITY & CONVERGENCE ADJUSTMENT

Caution:
Convergence and Purity have been factory aligned. Do not attempt to tamper with these alignments.
However, the effects of adjacent receiver components, or replacement of picture tube or deflection yoke may require the need to readjust purity any convergence.

5. Reconnect the internal degaussing coil.

6. Position the beam bender locking rings at the 9 o'clock position and the other three pairs of tabs (2,4 and 6 pole magnets) at the 12 o'clock position.



CONVERGENCE MAGNET ASSEMBLY

■ Purity Adjustment

This procedure DOES NOT apply to bonded yoke and picture tube assemblies.
The instrument should be at room temperature (60 degrees F or above) for six (6) hours and be operating at low beam current (dark background) for approximately 20 to 30 minutes before performing purity adjustments.

CAUTION: Do not remove any trim magnets that may be attached to the bell of the picture tube.

1. Remove the AC power and disconnect the internal degaussing coil.

2. Remove the yoke from the neck of the picture tube.

3. If the yoke has the tape version beam bender, remove it and replace it with a adjustable type beam bender (follow the instructions provided with the new beam bender)

4. Replace the yoke on the picture tube neck, temporarily remove the three (3) rubber wedges from the bell of the picture tube and then slide the yoke completely forward.

7. Perform the following steps, in the order given, to prepare the receiver for the purity adjustment procedure.

   a. Face the receiver in the "magnetic north" direction.

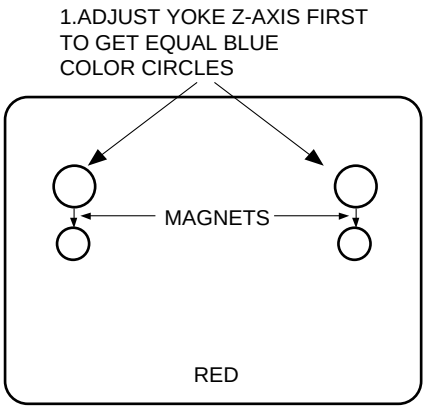
   b. Externally degauss the receiver screen with the television power turned off.

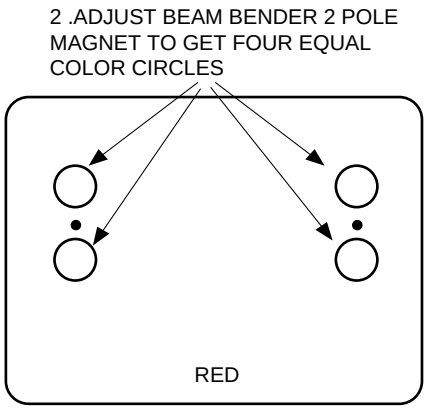
   c. Turn the television on for approximately 10 seconds to perform internal degaussing and then turn the TV off.

   d. Unplug the internal degaussing coil. This allows the thermistor to cool down while you are performing the purity adjustment. DO NOT MOVE THE RECEIVER FROM ITS "MAGNETIC NORTH" POSITION.

   e. Turn the receiver on and obtain a red raster by increasing the red bias control (CW) and decreasing the bias controls for the remaining two colors (CCW).

   f. Attach two round magnets on the picture tube screen at 3 o'clock and 9 o'clock positions, approximately one (1) inch from the edge of the mask (use double-sided tape).





8. Referring to above, perform the following two steps:
   a. Adjust the yoke Z-axis to obtain equal blue circles.
   b. Adjust the appropriate beam bender tabs to obtain correct purity (four equal circles).

9. After correct purity is set, tighten the yoke clamp screw and remove the two screen magnets.

10. Remove the AC power and rotate the receiver 180 degrees (facing "magnetic south").

11. Reconnect the internal degaussing coil.

12. Turn the receiver on for 10 seconds (make sure the receiver came on) to perform internal degaussing, and then turn the receiver off.

13. Unplug the internal degaussing coil.

14. Turn on the receiver and check the purity by holding one (1) round magnet at the 3 o'clock and a second round magnet at 9 o'clock position. If purity is not satisfactory, repeat steps 8 through 14.

15. Turn off the receiver and reconnect the internal degaussing coil.

■ Convergence Adjustment

Caution: This procedure DOES NOT apply to bonded yoke and picture tube assemblies.
Do not use screen magnets during this adjustment procedure. Use of screen magnets will cause an incorrect display.

1. Remove AC power and disconnect the internal degaussing coil.

2. Apply AC Power and set the brightness to the Picture Reset condition. Set the Color control to minimum.

3. Make horizontal line.

4. Adjust the Red, Green and Blue Bias controls to get a dim white line.

5. Restore the screen by removing the horizontal line.

6. Reconnect the internal degaussing coil and apply AC power.

7. Turn the receiver on for 10 seconds to perform internal degaussing and then turn the receiver off again.

8. Unplug the internal degaussing-coil.

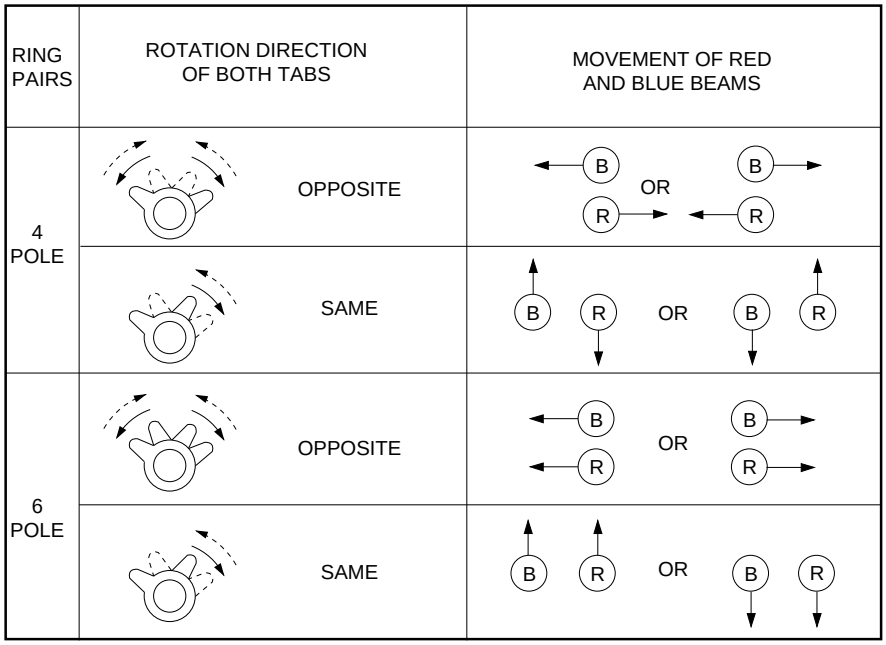
9. Turn on the receiver, connect a signal generator to the VHF antenna terminal and apply a crosshatch signal.

Caution: During the convergence adjustment procedure, be very careful not to disturb the purity adjustment tabs are accidentally move, purity should be confirmed before proceeding with the convergence adjustments.

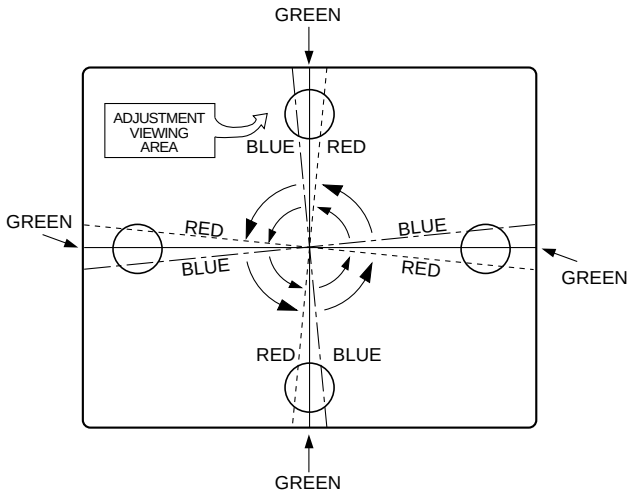
Note: Make sure the focus is set correctly on this instrument before proceeding with the following adjustment.

10. Converge the red and blue vertical lines to the green vertical line at the center of the screen by performing the following steps (below TABLE).
    a. Carefully rotate both tabs of the 4-pole ring magnet simultaneously in opposite directions from the 12 o'clock position to converge the red and blue vertical lines.
    b. Carefully rotate both tabs of the 6-pole ring magnet simultaneously in opposite directions form the 12 o'clock position to converge the red and blue (now purple) vertical lines with the green vertical line.

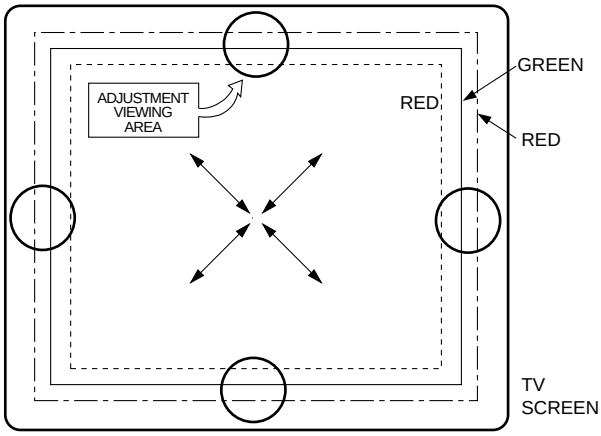
11. Converge the red and blue horizontal with the green line at the center of the screen by performing the following steps. (below TABLE)
    a. Carefully rotate both tabs of the 4-pole ring magnet simultaneously in the same direction (keep the spacing between the two tabs the same) to converge the red and blue horizontal lines.
    b. Carefully rotate both tabs of the 6-pole ring magnet simultaneously in same direction (keep the spacing between the two tabs the same) to converge the red and blue (now purple) horizontal lines with the green horizontal line.
    c. Secure the tabs previsouly adjusted by locking them in place with the locking tabs on the beam bender.



UP/DOWN ROCKING OF THE YOKE CAUSES OPPOSITE ROTATION OF RED AND BLUE RASTERS



LEFT/RIGHT ROCKING OF THE YOKE CAUSES OPPOSITE SIZE CHANGE OF THE RED AND BLUE RASTERS



12. While watching the 6 o'clock positions on the screen, rock the front of the yoke in a vertical (up/down) direction to converge the red and blue vertical lines. (Fig upper left)
13. Temporarily place a rubber wedge at the 12 o'clock position to hold the vertical position or the yoke.
14. Check the 3 o'clock and 9 o'clock areas to confirm that the red and blue horizontal lines are converged.
    If the lines are not converged, slightly offset the vertical tilt of the yoke (move the rubber wedge if necessary) to equally balance the convergence error of the horizontal lines at 3 o'clock and 9 o'clock and the vertical lines at 6 o'clock and 12 o'clock.
15. Place a 1.5 inch piece of glass tape over the rubber foot at the rear of the 12 o'clock wedge.
16. While watching the 6 o'clock and 12 o'clock areas of the screen, rock the front of the yoke in the horizontal (left to right) motion to converge the red and blue horizontal lines. (Fig. upper right)
17. Temporarily place a rubber wedge at the 5 o'clock and 7 o'clock positions to hold the horizontal position of the yoke.
18. Check the 3 o'clock and 9 o'clock areas to confirm that the red and blue vertical lines are converged. If the lines are not converged, slightly offset the horizontal tilt of the yoke (move the temporary rubber wedges if necessary) to equally balance the convergence error of the horizontal lines at 6 o'clock and 12 o'clock and the vertical lines at 3 o'clock and 9 o'clock.
19. Using a round magnet confirm purity at the center, right and left sides and corners. See Purity Adjustment Procedure.
20. Reconfirm convergence and apply a 1.5 inch piece of glass tape over the rubber foot at the rear of the 5 o'clock and the 7 o'clock wedges.

Service Sheet of MC-8CB

P/No : 3854VA0050A-S1
DATE : 1999.06.07

STEREO OPTION

CIR-NO	AV STEREO	A2/NICAM
R605	240- 1/8W	100- 1/8W
R607	240- 1/8W	100- 1/8W
C601	0.01UF	0.0056UF
C604	0.01UF	0.0056UF

VALUE OF RESISTER. CAPACITOR AND INDUCTOR

1. Resistor is shown in ohm. K=1,000 M=1,000,000
2. Unless otherwise noted in schematic. all capacitor values are expressed in uF.
3. Unless otherwise noted in schematic. all inductor values are expressed in uH.

OBSERVATION OF VOLTAGE AND WAVEFORMS

1. Voltages read with VTVM from point to ground line voltages 180 ~ 270 volts color bar signal.
2. Voltages reading may vary +/- 20%.
3. The schematic shown is representative only.
4. All waveforms are taken using a wide band oscilloscope and a low capacity prove.
5. Check FINE TUNING. AGC. BRIGHTNESS. CONTRAST and COLOR controls for best picture. make sure that BRIGHTNESS and COLOR controls are in mid position and CONTRAST controls is always in maximum position.
6. Waveforms are taken using a standard color signal.

NOTICE

Since this is a basic schematic diagram.
The value of components and some partial connection are subject to be changed for improvement without notice.

The components marked ⚠ conform VED or IEC guidelines and essential for safe operation of the TV receiver.
While those marked ⚠ are required for correct operation. use specified parts only when replacing.

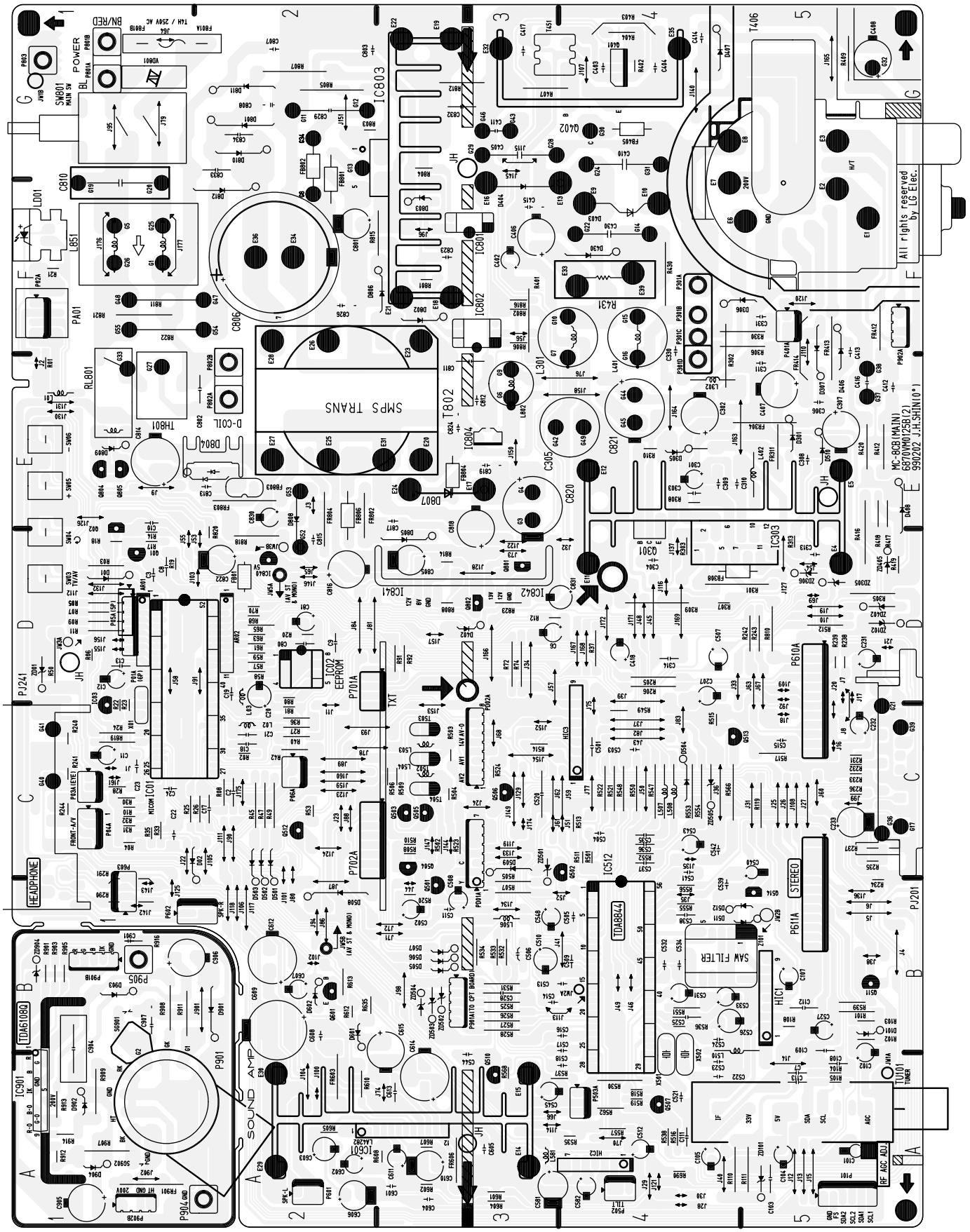
*** OPTION TABLE

CIRT. NO	25INCH	29INCH
L401	25UH	20UH
C430	624. 200V	504. 200V
R401	33 1W	27 1W
C410	203. 1.6KV	183. 1.6KV
L301	1.1MH	1.1MH
C405	152. 1.6KV	102. 2KV
R417	5.1K 1/6W	4.7K 1/6W
FR414	1 2W	0.47 2W
FR304	2 2W	1.2 2W
R532-533-534	1.5K	1.5K

	CIRT-NO	H30 NORMAL	H30 CISPER	K30 NORMAL	K30 CISPER
MAIN	L651	150-F06J	150-F06J	150-F06J	150-F06J
	C810	0.15UF-275V	0.15UF-275V	0.47UF-275V	0.15UF-275V
	SW801	TIN WIRE	TIN WIRE	SWITCH	
	VD801			VARISTOR	
	FB01	TIN WIRE	TIN WIRE	T4A 250V FUSE	
SUB	LP801	150-F06J	150-F06J		150-F06J
	CP801	0.22UF-275V	0.22UF-275V		0.22UF-275V
	SWP801	SWITCH	SWITCH		
	VDP801	VARISTOR	VARISTOR		
	FP801	T4A 250V FUSE	T4A 250V FUSE		

Video
Chroma
Audio

Main & CPT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MC-8CB(MAIN)
6870VM0125B(12)
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SMPS TRANS
SOUND AMP
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TDA6108Q
EEPROM
HEADPHONE
STEREO
TUNER
RF AGC ADJ
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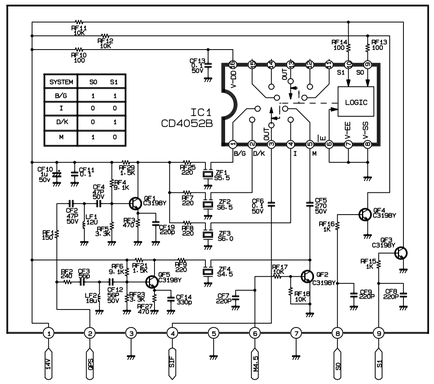
P927
P928
P929
P930
P931
P932
P933
P934
P935
P936
P937
P938
P939
P940
P941
P942

<MC-8CB MODULE & HIC CIRCUIT DIAGRAM>

P/No : 3854VA0050A-S2
DATE : 1999.06.07

HIC



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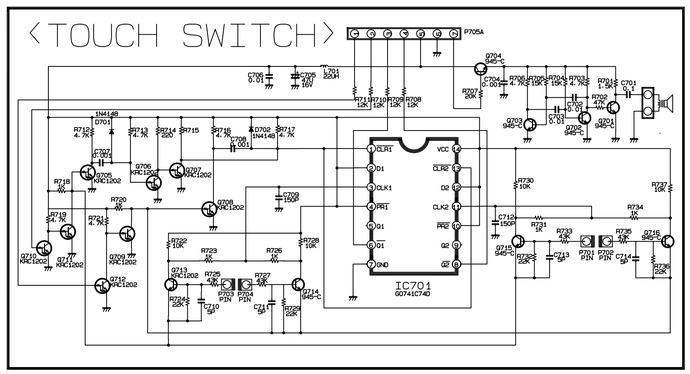

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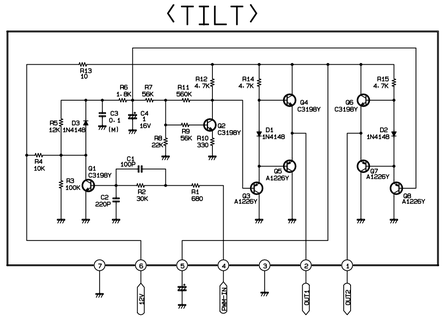

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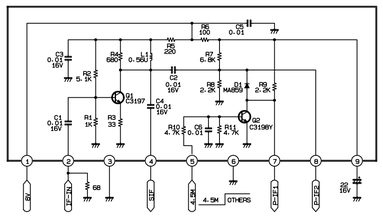
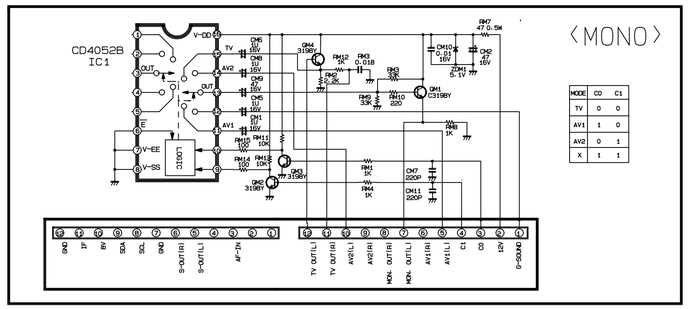
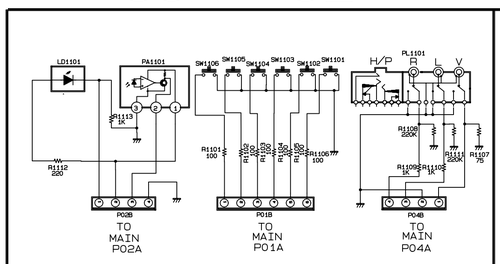


<MONO>



MODE	C0	C1
TV	0	0
AV1	1	0
AV2	0	1
X	1	1

CONTROL



H30

SUBPOWER

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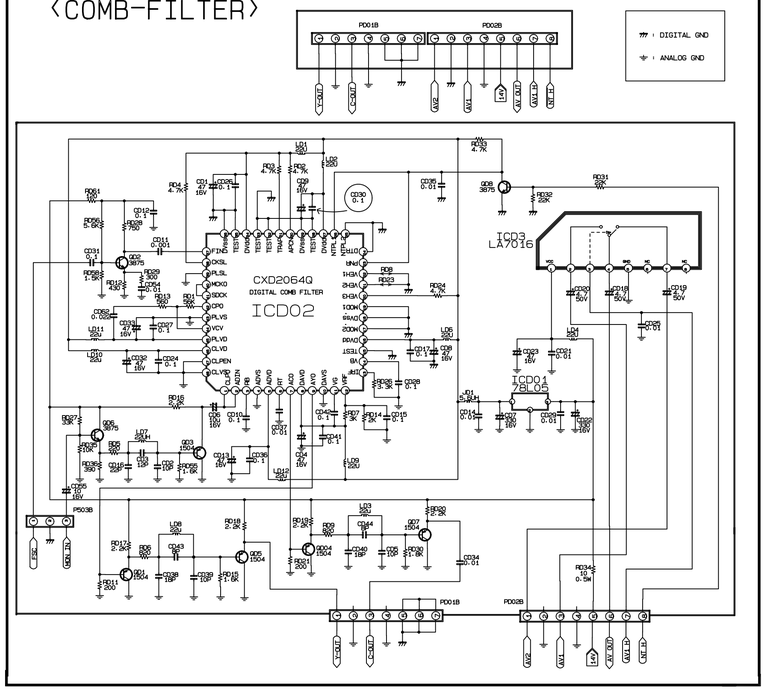
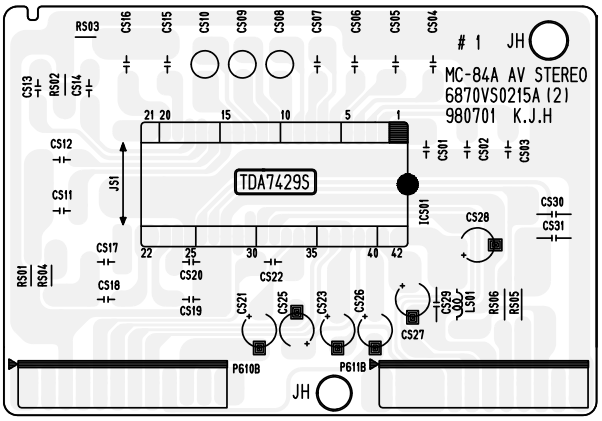
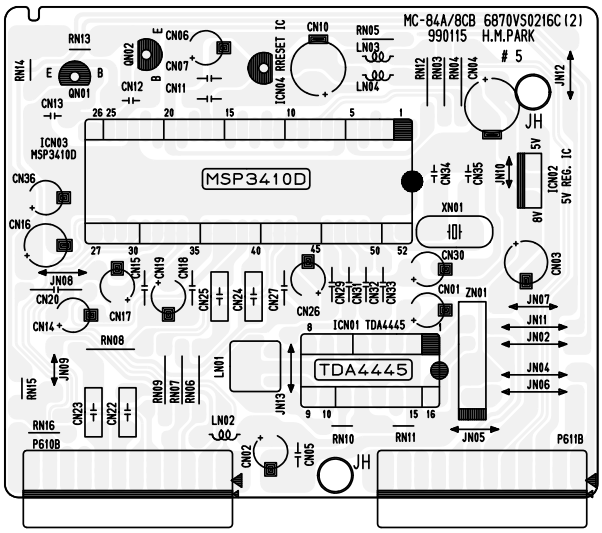


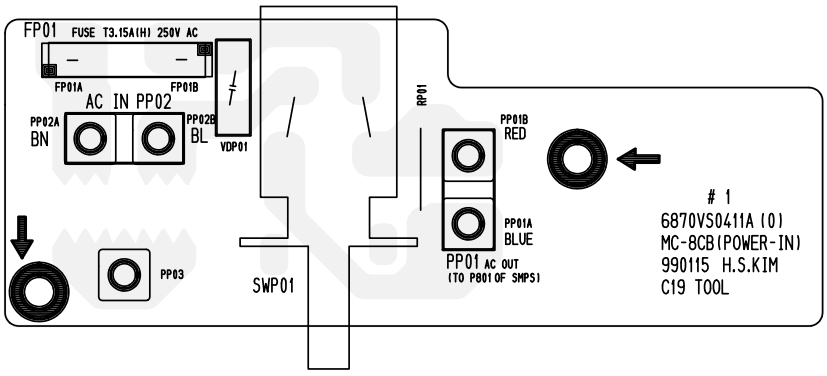
A/V Stereo (25")



RF Stereo (29")



POWER



REPLACEMENT PARTS LIST

The components identified by mark ⚠ is critical for safety.
Replace only with part number specified.

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RS : Metal Oxide Film
RN : Metal Film
RF : Fusible

LOCA. NO	PART NO	DESCRIPTION
		IC
HIC1	0IZZVF0014A	IF PRE-AMP 9P,SIP BK .
HIC2	0IZZVF0016A	TILT 7P,SIP BK .
HIC3	0IZZVF0016A	TILT 7P,SIP BK .
"	0IZZVF0015A	MULTI SIF S/W 9P
⚠ IC01	0ISO899308B	LG8993-08B *LANG.EAST/SOUTH
⚠ "	0ISO899309B	LG8993-09B *LANG.ARABIC
IC02	0IAL241600B	AT24C16-10PC 8D EEPROM 16K
IC03	0ISS754200A	KA7542Z RESET TO92 TP 4.2V
IC303	0IPH835050A	TDA8350Q/N5 13P,SIP BK V/DEF+E
IC512	0IPH884400A	TDA8844 56P,SDIP BK MULTI 1CHI
IC601	0ISA428200A	LA4282 12S 2CHX10W AUDIO AMP
⚠ IC801	0ISH123200B	PC123 FY2PHOTO COUPLER
⚠ IC802	0ITF435000A	4N35(G)V 6D PHOTO COUPLER
⚠ IC803	0ISK665613B	STR-F6656(LF1352) 5P,SIP BK ST
IC804	0ISK130000A	SE130N 3P 130V ERROR AMP
IC840	0ISS780500J	KA78L05AZ TO-92 TP 5V REGULATO
IC841	0ISS780800H	KA78R08 4P,TO-220F BK LOW DROP
IC842	0ISS781200H	KA78R12 4P,TO-220F BK LOW DROP
IC901	0IPH610800A	TDA6108JF 9SIP BK VIDEO OUT AM
		DIODE
D01	0DD414809ED	1N4148 TA
D02	0DD414809ED	1N4148 TA
D101	0DD414809ED	1N4148 TA
D102	0DD414809ED	1N4148 TA
D103	0DD414809ED	1N4148 TA
D104	0DD414809ED	1N4148 TA
D105	0DD414809ED	1N4148 TA
D301	0DD414809ED	1N4148 TA
D305	0DD414809ED	1N4148 TA
D306	0DD414809ED	1N4148 TA
D307	0DD200009AF	RECTIFIER,RU2M V(1)
D402	0DD414809ED	1N4148 TA
D403	0DD410000AC	RECTIFIER,RU4DS,LF-L1
D404	0DD410000AD	RECTIFIER,RU4AM,LF-L1
D406	0DD060009AC	TVR06J 0.6A/600V 250NS
D407	0DD060009AC	TVR06J 0.6A/600V 250NS
D408	0DD400509AA	RECTIFIER,1N4005 GP
⚠ D430	0DD150009CA	RECTIFIER,RGP15J
D501	0DD414809ED	1N4148 TA
D502	0DD414809ED	1N4148 TA
D503	0DD414809ED	1N4148 TA
D504	0DD414809ED	1N4148 TA
D505	0DD414809ED	1N4148 TA
D506	0DD414809ED	1N4148 TA
D507	0DD414809ED	1N4148 TA
D508	0DD414809ED	1N4148 TA

LOCA. NO	PART NO	DESCRIPTION
D509	0DD414809ED	1N4148 TA
D510	0DD414809ED	1N4148 TA
D601	0DD414809ED	1N4148 TA
D602	0DD414809ED	1N4148 TA
D751	0DD414809ED	1N4148 TA
D801	0DD110009DB	RM11CV(1)
D802	0DD100009AM	RECTIFIER,EU1ZV(1)
D803	0DD414809ED	1N4148 TA
D804	0DD420000BB	D4L20U SHINDENGEN
D805	0DD200009AF	RECTIFIER,RU2M V(1)
D806	0DD100009AM	RECTIFIER,EU1ZV(1)
D807	0DD410000AD	RECTIFIER,RU4AM
D808	0DD300009AC	RECTIFIER,RU3AMV(1)
D809	0DD414809ED	1N4148 TA
D810	0DD110009DB	RM11CV(1) TP SANKEN
D811	0DD110009DB	RM11CV(1) TP SANKEN
D812	0DD110009DB	RM11CV(1) TP SANKEN
D901	0DD400309AD	RECTIFIER,IN4003A
D902	0DS124409AA	SWITCHING,1SS244
D903	0DS124409AA	SWITCHING,1SS244
D904	0DS124409AA	SWITCHING,1SS244
ZD101	0DZ510009AB	ZENER,MTZ5.1B,TP(52MM)
ZD102	0DZ330009BA	ZENER,HZT33(TP) HITACHI
ZD305	0DZ240009CG	ZENER,MTZJ24B
ZD306	0DZ110009AD	ZENER,MTZJ 11B
ZD402	0DZ750009AG	ZENER,MTZJ7.5B
ZD405	0DZ820009AH	ZENER,MTZJ8.2B
ZD501	0DZ180009AG	ZENER,MTZJ18B
ZD502	0DZ750009AG	ZENER,MTZJ7.5B
ZD503	0DZ750009AG	ZENER,MTZJ7.5B
ZD504	0DZ750009AG	ZENER,MTZJ7.5B
ZD505	0DZ750009AG	ZENER,MTZJ7.5B
⚠ ZD751	0DZ200009AD	ZENER,MTZJ20B
ZD904	0DZ750009AG	ZENER,MTZJ7.5B
ZD905	0DZ750009AG	ZENER,MTZJ7.5B
ZD1101	0DZ560009CF	ZENER,MTZJ5.6B
		TRANSISTOR
Q01	0TR945009AA	KSC945C-Y TP SAMSUNG
Q02	0TR102009AB	KRC102M
Q301	0TR988000AC	KTB988-Y(KTB834)
Q401	0TR209200AA	KTD2092 KEC
⚠ Q402	0TR188600AA	2SD1886,SANYO
Q501	0TR945009AA	KSC945C-Y TP SAMSUNG
Q502	0TR733009AA	KSA733C-Y TP SANSUNG
Q503	0TR945009AA	KSC945C-Y TP SAMSUNG
Q504	0TR733009AA	KSA733C-Y TP SANSUNG
Q505	0TR733009AA	KSA733C-Y TP SANSUNG
Q506	0TR733009AA	KSA733C-Y TP SANSUNG

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LOCA. NO	PART NO	DESCRIPTION
Q507	0TR945009AA	KSC945C-Y TP SAMSUNG
Q510	0TR733009AA	KSA733C-Y TP SANSUNG
Q511	0TR733009AA	KSA733C-Y TP SANSUNG
Q512	0TR945009AA	KSC945C-Y TP SAMSUNG
Q513	0TR945009AA	KSC945C-Y
Q514	0TR102009AB	KRC102M
Q601	0TR733009AA	KSA733C-Y TP SANSUNG
⚠ Q751	0TR945009AA	KSC945C-Y TP SAMSUNG
Q801	0TR102009AB	KRC102M
Q802	0TR102009AB	KRC102M
Q804	0TR945009AA	KSC945C-Y TP SAMSUNG
Q805	0TR322709AA	KTC3227-Y,TP(KTC1627A),KEC
CAPACITOR		
C03	0CN1010K519	100P 50V K
C3	0CN1010K519	100P 50V K
C6	0CE225DK618	2.2000UF STD 50V M
C7	0CX2200K409	22P 50V J
C8	0CN1040K949	0.1M 50V Z
C9	0CN7500K519	75P 50V K
C10	0CN2220F669	2200P 16V M
C11	0CE106DF618	10UF STD 16V M
C12	0CE335DK618	3.3000UF STD 50V M
C13	0CN1020K519	1000P 50V K
C17	0CN1010K519	100P 50V K
C18	0CX1000K409	10P 50V J
C19	0CN1030F679	10000P 16V M
C20	0CE107DF618	100UF STD 16V M
C21	0CX1000K409	10P 50V J SL TA52
C22	0CQ1031N509	0.01U 100V K
C23	0CN1030F679	10000P 16V M
C24	0CN1030F679	10000P 16V M
C80	0CN1030F679	10000P 16V M
C81	0CE476DF618	47UF STD 16V M
C101	0CQ1041N509	0.1U 100V K
C102	0CE335DK618	3.3000UF STD 50V M
C104	0CE226DF618	22UF STD 16V M
C105	0CE475DK618	4.7000UF STD 50V M
C107	0CE226DF618	22UF STD 16V M
C108	0CX4700K409	47P 50V J
C109	0CX4700K409	47P 50V J
C111	0CN1040K949	0.1M 50V Z
C112	0CN1040K949	0.1M 50V Z
C113	0CX3300K409	33P 50V J
C207	0CE225DK618	2.2UF STD 50V M
C231	0CE226DF618	22UF STD 16V M
C232	0CE226DF618	22UF STD 16V M
C233	0CE227DF618	220UF STD 16V M
C301	0CE226BK618	22UF KME 50V M
C302	0CE477DJ618	470UF STD 35V M
C303	0CN1040K949	0.1M 50V Z
C304	0CQ1042K439	0.1000UF S 50V J

LOCA. NO	PART NO	DESCRIPTION
C305	0CE6851K652	6.8000UF SM 50V M
C306	0CK2710W515	270P 500V K
C307	0CE477DJ618	470UF STD 35V M
C308	0CQ1042K439	0.1000UF S 50V J
C309	0CQ1041N509	0.1U 100V K
C310	0CQ1031N509	0.01U 100V K
C311	0CQ4731N509	0.047U 100V K
C313	0CK1020K515	1000PF 50V K
C314	0CN1020K519	1000P 50V K
C330	0CQ1031N509	0.01U 100V K
C331	0CQ4731N509	0.047U 100V K
C402	0CE106BN618	10UF KME 100V M
C403	0CK3910K515	390P 50V K
C404	0CQ3331N509	0.033U 100V K
⚠ C405	0CB10212474	1000PF D 2KV J
⚠ "(25")"	181-011C	1600V 0.0015UF J
⚠ C406	0CE106BR618	10UF KME 250V M
C407	0CE476DN618	47UF STD 100V M
C408	0CE106DR618	10UF STD 250V M
⚠ C410	181-834B	MPP 1600V 0.018UF J
⚠ "(25")"	181-015Q	MPP 1600V 0.02UF J
⚠ C411	181-005H	PE 400V 0.022UF K
C412	0CQ1041N509	0.1U 100V K
C413	0CK2710W515	270P 500V K
C414	0CK2710W515	270P 500V K
C415	0CK47102515	470P 2KV K B TS
C416	181-009V	PP 200V 0.047UF K
C417	0CQ1031N509	0.01U 100V K
C418	0CE474DK618	0.4700UF STD 50V M
⚠ C430	181-013G	MPP 200V 0.5UF J
⚠ "(25")"	181-013H	MPP 200V 0.62UF J
C501	0CN1020K519	1000P 50V K
C502	0CE476DF618	47UF STD 16V M
C503	0CQ1021N509	0.001U 100V K
C504	0CQ1041N509	0.1U 100V K
C505	0CQ1031N509	0.01U 100V K
C506	181-007H	ECQ-V1H474JZ3(TR),50V 0.4
C507	0CE335DK618	3.3000UF STD 50V M
C509	0CN1040K949	0.1M 50V Z F TA52
C510	0CE107DF618	100UF STD 16V M
C511	0CQ1041N509	0.1U 100V K
C512	0CE225DK618	2.2UF STD 50V M
C513	181-007F	ECQ-V1H224JZ3(TR),50V 0.2
C514	0CQ1041N509	0.1U 100V K
C515	0CQ1831N509	0.018U 100V K
C516	0CQ2231N509	0.022U 100V K
C517	0CQ2231N509	0.022U 100V K
C518	0CQ2231N509	0.022U 100V K
C520	0CX6200K409	62P 50V J
C521	0CC2210K415	220P 50V J
C522	0CC2710K415	270P 50V J
C523	0CC6200K415	62PF 50V J

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LOCA. NO	PART NO	DESCRIPTION
C524	0CQ4731N509	0.047U 100V K
C525	0CN1040K949	0.1M 50V Z
C526	0CE107DF618	100UF STD 16V M
C527	0CE106DF618	10UF STD 16V M
C528	0CN1010K519	100P 50V K
C531	0CE104DK618	0.1000UF STD 50V M
C532	0CQ2721N409	0.0027M 100V J
C533	0CE105DK618	1UF STD 50V M
C534	0CQ4721N509	0.0047U 100V K
C535	0CN1020K519	1000P 50V K
C536	0CN1020K519	1000P 50V K
C537	0CN1020K519	1000P 50V K
C538	0CQ1041N455	0.1000UF 100V J
C539	181-007F	ECQ-V1H224JZ3(TR),50V 0.2
C540	0CSZVTA001C	TAP105K025BRS(AMMO)25V 1UF K
C541	0CQ2231N509	0.022U 100V K
C542	0CQ3321N509	0.0033U 100V K
C543	0CE106DF618	10UF STD 16V M
C544	181-007H	ECQ-V1H474JZ3(TR),50V 0.4
C545	0CE105DK618	1UF STD 50V M
C548	0CE225DK618	2.2000UF STD 50V M
C581	0CE227DF618	220UF STD 16V M
C582	0CE476DF618	47UF STD 16V M
C601	0CQ6821N509	0.0068U 100V K
"	0CQ1031N509	0.01U 100V K *AV STEREO
C602	0CE684DK618	0.6800UF STD 50V M
C603	0CE107DH618	100UF STD 25V M
C604	0CQ6821N509	0.0068U 100V K
"	0CQ1031N509	0.01U 100V K *AV STEREO
C605	0CQ1041N509	0.1U 100V K
C606	0CE107DH618	100UF STD 25V M
C608	0CQ1041N509	0.1U 100V K
C609	0CE108DK61A	1000UF STD 50V M
C610	0CE107DH618	100UF STD 25V M
C611	0CE684DK618	0.6800UF STD 50V M
C612	0CE108DJ618	1000UF STD 35V M
C613	0CN1040K949	0.1M 50V Z
C614	0CE108DJ618	1000UF STD 35V M
C615	0CE477DH618	470UF STD 25V M
C751	0CE226DK618	22UF STD 50V M
C752	0CQ4721N509	0.0047U 100V K
C801	0CE107BJ618	100UF KME 35V M
C803	0CK1020K515	1000PF 50V K
C805	0CE227BF618	220UF KME 16V M
⚠ C806	0CE337KV6A0	330UF SLT 450V M
C807	181-091R	1KV R 102K TP5
C808	181-091R	1KV R 102K TP5
⚠ C810	0CQZVBK002D	A.C 275V 0.47UF K
C811	181-120C	ACT 4KV B 471K FL10
C812	0CQ1042K439	0.1000UF S 50V J
C813	181-091Q	1KV R 471K TP5
C814	0CE477BK618	470UF KME 50V M

LOCA. NO	PART NO	DESCRIPTION
C815	0CK4710W515	470PF 500V K
C816	0CE108DF618	1000UF STD 16V M
C817	181-091Q	1KV R 471K TP5
C818	0CE477BH618	470UF KME TYPE 25V M
C819	181-091D	DE0905-979 R 102K 1KV
C820	0CE227BP650	220U KME 160V M FM7.5
C821	0CE1071P61A	100UF SM 160V M
C822	0CE227DF618	220UF STD 16V M
C823	0CK8210K515	820P 50V K
C824	181-091C	DE0705-979 R 471K 1KV
C826	181-033H	2KV B 101K TP5
C829	181-011C	PP 1600V 0.0015UF J
C830	0CE475DK618	4.7000UF STD 50V M
C831	0CE107DF618	100UF STD 16V M
⚠ C832	181-120K	ACT 4KV E 222M
C833	181-091S	1KV R 222K TP10
C834	181-091S	1KV R 222K TP10
C901	0CK1020K515	1000PF 50V K
C904	0CQZVBK002A	A.C 275V 0.1UF M
C905	0CE475DR618	4.7000UF STD 250V M
C906	0CE106DR618	10UF STD 250V M
C907	181-033S	2KV B 122K TP7.5
C1101	0CN1030F679	10000P 16V M
CP810	0CQZVBK002C	AC275V 0.22UF K
CORE		
FB01	125-022K	CORE (CIRC),BEAD FERRITE 1UH
FB308	125-022K	CORE (CIRC),BEAD FERRITE 1UH
FB405	125-022K	CORE (CIRC),BEAD FERRITE 1UH
FB801	125-022K	CORE (CIRC),BEAD FERRITE 1UH
FB802	125-022K	CORE (CIRC),BEAD FERRITE 1UH
FB803	125-123A	CORE,FERRITE BFD3565R2F
FB804	125-022K	CORE (CIRC),BEAD FERRITE 1UH
FB806	125-022K	CORE (CIRC),BEAD FERRITE 1UH
R810	125-022K	CORE (CIRC),BEAD FERRITE 1UH
FUSE		
⚠ F801	0FT4001B53C	FUSE,TIME LAG 4000MA 250 V 5.2X20
⚠ FP801	0FT4001B53C	FUSE,4000MA 250V
⚠ FR803	131-096D	FUSE,3000MA 125 V 2.5X7.6
⚠ FR804	131-096D	FUSE,3000MA 125 V 2.5X7.6
COIL & TRANSFORMER		
L01	0LA0102K119	INDUCTOR,10UH K
L02	0LA0102K119	INDUCTOR,10UH K
L03	0LA0102K119	INDUCTOR,10UH K
L301	150-717K	COIL,CHOKE 1.1MH
L302	0LA0221K139	INDUCTOR,2.2UH A
⚠ L401	150-L01D	COIL,H-LINEARITY 20UH
⚠ "(25")	150-L01H	COIL,H-LINEARITY 25UH
L402	0LA0102K139	INDUCTOR,10UH K
L503	0LA0821K119	INDUCTOR,8.2UH K

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LOCA. NO	PART NO	DESCRIPTION
L504	0LA0122K119	INDUCTOR,12UH K
L506	0LA0102K119	INDUCTOR,10UH K
L507	0LA1000K119	INDUCTOR,100UH K
L508	0LA1000K119	INDUCTOR,100UH K
L510	0LA0102K119	INDUCTOR,10UH K
L581	0LA0102K119	INDUCTOR,10UH K
L802	150-C02F	COIL,CHOKE 82UH
L851	150-F06J	COIL,LINE FILTER SQE2930 18MH
R45	0LA0102K119	INDUCTOR,10UH K
R47	0LA0102K119	INDUCTOR,10UH K
R49	0LA0102K119	INDUCTOR,10UH K
R526	0LA0561K119	INDUCTOR,5.6UH K
R527	0LA0561K119	INDUCTOR,5.6UH K
R528	0LA0561K119	INDUCTOR,5.6UH K
⚠ T451	6170VC0003C	TRANSFORMER,HORIZONTAL 10MM 75UH
⚠ T802	6170VMCA01S	TRANSFORMER,SMPS EER5345 450UH
TP801	150-F06J	COIL,LINE FILTER SQE2930 18MH
RESISTOR		
AR01	180-E01L	10K OHM 5% 10K*9(P=1.778) 1/8W
AR02	180-E01M	4.7K OHM 1 / 8 W 2012 5%
⚠ FR304	180-D02G	CR 2W 1.2 J TA31
⚠ “(25”)	180-D02L	CR 2W 2.0 J TA31
FR311	0RF0222H609	22 1/2W 5 TA52
FR412	0RD2201H609	2.2K 1/2W 5 TA52
⚠ FR413	180-D02L	CR 2W 2.0 J TA31
⚠ FR414	180-D02C	EQ 2W 0.47 J TA31
⚠ “(25”)	180-D02E	EQ 2W 1.0 J TA31
FR603	0RF0331H609	3.3 1/2W 5 TA52
FR606	0RF0331H609	3.3 1/2W 5 TA52
⚠ FR802	0RF0470H609	0.47 1/2W 5 TA52
⚠ FR901	180-D02E	CR 2W 1.0 J TA31
R01	0RD2200F609	220 1/6W 5 TA52
R02	0RD1201F609	1.2K 1/6W 5 TA52
R03	0RD1001F609	1.0K 1/6W 5 TA52
R04	0RD4701F609	4.70K 1/6W 5% TA52
R05	0RD1000F609	100 1/6W 5 TA52
R06	0RD4701F609	4.70K 1/6W 5% TA52
R07	0RD1000F609	100 1/6W 5 TA52
R09	0RD1000F609	100 1/6W 5 TA52
R10	0RD4701F609	4.70K 1/6W 5% TA52
R11	0RD1000F609	100 1/6W 5 TA52
R12	0RD2701F609	2.7K 1/6W 5 TA52
R14	0RD1002F609	10K 1/6W 5 TA52
R17	0RD4702F609	47K 1/6W 5 TA52
R18	0RD1002F609	10K 1/6W 5 TA52
R19	0RD1000F609	100 1/6W 5 TA52
R20	0RD1000F609	100 1/6W 5 TA52
R21	0RD1001F609	1.0K 1/6W 5 TA52
R22	0RD1002F609	10K 1/6W 5 TA52
R23	0RD1001F609	1.0K 1/6W 5 TA52
R24	0RD1000F609	100 1/6W 5 TA52

LOCA. NO	PART NO	DESCRIPTION
R25	0RD1000F609	100 1/6W 5 TA52
R26	0RD1000F609	100 1/6W 5 TA52
R27	0RD1000F609	100 1/6W 5 TA52
R28	0RD1000F609	100 1/6W 5 TA52
R30	0RD4701F609	4.70K 1/6W 5% TA52
R31	0RD2401F609	2.4K 1/6W 5 TA52
R32	0RD4701F609	4.70K 1/6W 5% TA52
R33	0RD1001F609	1.0K 1/6W 5 TA52
R35	0RD1000F609	100 1/6W 5 TA52
R36	0RD1002F609	10K 1/6W 5 TA52
R37	0RD1002F609	10K 1/6W 5 TA52
R40	0RD1000F609	100 1/6W 5 TA52
R42	0RD1000F609	100 1/6W 5 TA52
R50	0RD1000H609	100 OHM 1/2 W 5% TA52
R53	0RD1000F609	100 1/6W 5 TA52
R57	0RD1000F609	100 1/6W 5 TA52
R59	0RD1000F609	100 1/6W 5 TA52
R61	0RD1000F609	100 1/6W 5 TA52
R63	0RD1000F609	100 1/6W 5 TA52
R65	0RD1000F609	100 1/6W 5 TA52
R68	0RD1000F609	100 1/6W 5 TA52
R70	0RD1000F609	100 1/6W 5 TA52
R72	0RD1000F609	100 1/6W 5 TA52
R74	0RD1000F609	100 1/6W 5 TA52
R80	0RD1000F609	100 1/6W 5 TA52
R81	0RD1000F609	100 1/6W 5 TA52
R91	0RD1000F609	100 1/6W 5 TA52
R92	0RD1000F609	100 1/6W 5 TA52
R101	0RD1202F609	12K 1/6W 5 TA52
R102	0RD1002F609	10K 1/6W 5 TA52
R103	0RD1802F609	18K 1/6W 5 TA52
R104	0RD1000F609	100 1/6W 5 TA52
R105	0RD1000F609	100 1/6W 5 TA52
R108	0RD0682F609	68 1/6W 5 TA52
R110	0RD0472H609	47 1/2W 5 TA52
R111	0RD0472H609	47 1/2W 5 TA52
R119	0RD4701F609	4.70K 1/6W 5% TA52
R231	0RD0752F609	75 1/6W 5% TA
R232	0RD0752F609	75 1/6W 5% TA
R233	0RD0752F609	75 1/6W 5% TA
R234	0RD0752F609	75 1/6W 5% TA
R235	0RD0622F609	62 1/6W 5 TA52
R236	0RD0752F609	75 1/6W 5% TA
R238	0RD1000F609	100 1/6W 5 TA52
R239	0RD1000F609	100 1/6W 5 TA52
R240	0RD0752F609	75 1/6W 5% TA
R241	0RD2203F609	220K 1/6W 5 TA52
R242	0RD1000F609	100 1/6W 5 TA52
R243	0RD1000F609	100 1/6W 5 TA52
R244	0RD2203F609	220K 1/6W 5 TA52
R290	0RD5100H609	510 1/2W 5 M15
R291	0RD5100H609	510 1/2W 5 M15

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LOCA. NO	PART NO	DESCRIPTION
R301	0RN0820J607	0.82 1W 5% TA62
R302	0RS2200K607	220 2W 5% TA62
R303	0RN2701F409	2.70K 1/6W 1% TA52
R305	0RD2201H609	2.2K 1/2W 5 TA52
R306	0RD0222H609	22 1/2W 5 TA52
R307	0RN6202F409	62KOHM 1/6 W 1% TA52
R308	0RD2202F609	22K 1/6W 5 TA52
R309	0RS0102K607	10 2W 5% TA62
R310	0RS5601J607	5.60K 1W 5% TA62
R313	0RD5101F609	5.1K 1/6W 5 TA52
R330	0RD0222H609	22 1/2W 5 TA52
R401	0RS0272J607	27 1W 5% TA62
“(25”)	0RS0332J607	33 1W 5% TA62
R402	0RD2001F609	2.0K 1/6W 5 TA52
R403	0RS3300J607	330 1W 5% TA62
R404	0RD4700F609	470 1/6W 5 TA52
R407	0RD0332H609	33 1/2W 5 TA52
R409	0RD2203H609	220K 1/2W 5 TA52
R412	0RD3301H609	3.3K 1/2W 5 TA52
R416	0RS8201J607	8.20K 1W 5% TA62
R417	0RD4701F609	4.70K 1/6W 5% TA52
“(25”)	0RD5101F609	5.1K 1/6W 5 TA52
R418	0RD6801F609	6.8K 1/6W 5 TA52
R419	0RD5101F609	5.1K 1/6W 5 TA52
R420	0RD1001H609	1K OHM 1/2 W 5% TA52
⚠ R430	0RS8200J607	820 1W 5% TA62
⚠ R431	180-B01M	S 5W 7.5K J DOUBLE
R501	0RD3900F609	390 1/6W 5 TA52
R502	0RD2000F609	200 1/6W 5 TA52
R503	0RD2200F609	220 1/6W 5 TA52
R504	0RD2000F609	200 1/6W 5 TA52
R505	0RD1003F609	100K 1/6W 5 TA52
R506	0RD1002F609	10K 1/6W 5 TA52
R507	0RD1001F609	1.0K 1/6W 5 TA52
R508	0RD6200F609	620 1/6W 5 TA52
R509	0RD1002F609	10K 1/6W 5 TA52
R510	0RD1001F609	1.0K 1/6W 5 TA52
R511	0RD3904F609	3.9M 1/6W 5 TA52
R512	0RD2703F609	270K 1/6W 5 TA52
R513	0RD1602F609	16K 1/6W 5 TA52
R514	0RD1001F609	1K 1/6W 5 TA52
R515	0RD2201F609	2.2K 1/6W 5 TA52
R516	0RD3900F609	390 1/6W 5 TA52
R517	0RD1001F609	1K 1/6W 5 TA52
R518	0RD1000F609	100 1/6W 5 TA52
R519	0RD0102F609	10 1/6W 5 TA52
R520	0RD6800F609	680 1/6W 5 TA52
R521	0RD2200F609	220 1/6W 5 TA52
R522	0RD2200F609	220 1/6W 5 TA52
R523	0RD1800F609	180 1/6W 5 TA52
R524	0RD3300F609	330 1/6W 5 TA52
R525	0RD1002F609	10K 1/6W 5 TA52

LOCA. NO	PART NO	DESCRIPTION
R531	0RD1103F609	110K 1/6W 5 TA52
R532	0RD1501F609	1.5K 1/6W 5 TA52
R533	0RD1501F609	1.5K 1/6W 5 TA52
R534	0RD1501F609	1.5K 1/6W 5 TA52
R535	0RD1501F609	1.5K 1/6W 5 TA52
R536	0RD1503F609	150K 1/6W 5 TA52
R537	0RD3901F609	3.9K 1/6W 5 TA52
R538	0RD2000F609	200 1/6W 5 TA52
R539	0RD3300F609	330 1/6W 5 TA52
R547	0RD1000F609	100 1/6W 5 TA52
R548	0RD1000F609	100 1/6W 5 TA52
R549	0RD3001F609	3.0K 1/6W 5 TA52
R550	0RD2702F609	27K 1/6W 5 TA52
R551	0RD1502F609	15K 1/6W 5 TA52
R552	0RD3002F609	30K 1/6W 5 TA52
R553	0RD3303F609	330K 1/6W 5 TA52
R554	0RD9102F609	91K 1/6W 5 TA52
R555	0RN3902F409	39K 1/6W 1% TA52
R556	0RD1201F609	1.2K 1/6W 5 TA52
R557	0RD5100F609	510 1/6W 5 TA52
R562	0RD1000F609	100 1/6W 5 TA52
R566	0RD1001F609	1K 1/6W 5 TA52
R568	0RD5600F609	560 1/6W 5 TA52
R601	0RD4301F609	4.3K 1/6W 5 TA52
R602	0RD2701F609	2.7K 1/6W 5 TA52
R604	0RD4301F609	4.3K 1/6W 5 TA52
R605	0RD1000F609	100 1/6W 5 TA52
“	0RD2400F609	240 1/6W 5 TA52 *AV STEREO
R607	0RD1000F609	100 1/6W 5 TA52
“	0RD2400F609	240 1/6W 5 TA52 *AV STEREO
R608	0RD2701F609	2.7K 1/6W 5 TA52
R610	0RD1001F609	1.0K 1/6W 5 TA52
R612	0RD1500F609	150 1/6W 5 TA52
R613	0RD6802F609	68K 1/6W 5 TA52
R635	0RD1001F609	1.0K 1/6W 5 TA52
R690	0RD2700F609	270 1/6W 5 TA52
⚠ R752	0RD1602F609	16K 1/6W 5
⚠ R753	0RD3901F609	3.9K 1/6W 5
R801	0RD3601F609	3.6K 1/6W 5 TA52
R802	0RD2001F609	2.0K 1/6W 5 TA52
R803	0RD9100F609	910 1/6W 5 TA52
R804	0RD4701F609	4.70K 1/6W 5% TA52
R805	180-A01P	0.13 OHM 2 W 5% TA62
R806	0RD2201F609	2.2K 1/6W 5 TA52
R807	0RS4702K607	47K 2W 5% TA62
R808	0RD1001F609	1.0K 1/6W 5 TA52
R809	0RS4702K607	47K 2W 5% TA62
R811	0RMZVBK001E	2.2OHM 10W J(5%)
⚠ R812	180-C02H	RC 1/2W 8.2M K
R814	0RD4702F609	47K 1/6W 5 TA52
R815	0RD0222H609	22 1/2W 5 TA52
R816	0RD2001F609	2.0K 1/6W 5 TA52

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LOCA. NO	PART NO	DESCRIPTION
R818	0RS0272H609	27 1/2W 5 TA52
R819	0RD4701F609	4.70K 1/6W 5% TA52
R820	0RD4702F609	47K 1/6W 5 TA52
R821	180-C02L	0.47MOHM 1/2 W 10%
R822	0RMZVBK001E	2.2OHM 10W J(5%)
R823	0RD1001F609	1.0K 1/6W 5 TA52
R901	0RD1000F609	100 1/6W 5 TA52
R903	0RD1000F609	100 1/6W 5 TA52
R905	0RD1000F609	100 1/6W 5 TA52
R907	0RD1501H609	1.5K 1/2W 5 TA52
R908	0RD1501H609	1.5K 1/2W 5 TA52
R909	0RD1501H609	1.5K 1/2W 5 TA52
R911	0RD2204H609	2.2M 1/2W 5 TA52
R912	0RD1000F609	100 1/6W 5 TA52
R913	0RD1000F609	100 1/6W 5 TA52
R914	0RD1000F609	100 1/6W 5 TA52
R1101	0RD1000F609	100 1/6W 5 TA52
R1102	0RD1000F609	100 1/6W 5 TA52
R1103	0RD1000F609	100 1/6W 5 TA52
R1104	0RD1000F609	100 1/6W 5 TA52
R1105	0RD1000F609	100 1/6W 5 TA52
R1106	0RD1000F609	100 1/6W 5 TA52
R1107	0RD0752F609	75 1/6W 5 TA52
R1108	0RD2203F609	220K 1/6W 5 TA52
R1109	0RD1001F609	1K 1/6W 5 TA52
R1110	0RD1001F609	1K 1/6W 5 TA52
R1111	0RD2203F609	220K 1/6W 5 TA52
R1112	0RD2200F609	220 1/6W 5 TA52
R1113	0RD1001F609	1K 1/6W 5 TA52
SWITCH		
SW03	140-315A	SWITCH,TACT SKHV17910B 12V
SW04	140-315A	SWITCH,TACT SKHV17910B 12V
SW05	140-315A	SWITCH,TACT SKHV17910B 12V
SW06	140-315A	SWITCH,TACT SKHV17910B 12V
SW1101	140-315A	SWITCH,TACT SKHV17910B 12V
SW1102	140-315A	SWITCH,TACT SKHV17910B 12V
SW1103	140-315A	SWITCH,TACT SKHV17910B 12V
SW1104	140-315A	SWITCH,TACT SKHV17910B 12V
SW1105	140-315A	SWITCH,TACT SKHV17910B 12V
SW1106	140-315A	SWITCH,TACT SKHV17910B 12V
⚠ SWP801	6600VM2002A	SWITCH,PUSH SDKEA3 250V
FILTER & CRYSTAL		
T502	166-C02D	FILTER,TRAP TPS6.0MB-TF21 MURATA 6.0MHZ
T503	166-C04C	FILTER,TRAP TPWA02B-TF21 MURATA 5.5/6.0MHZ
T504	166-C02B	FILTER,TRAP TPS4.5MB-TF21 MURATA 4.5MHZ
X501	156-A01C	CRYSTAL,STD HC49U RADIAL 3.579545MHZ
X502	156-A01V	CRYSTAL,STD HC49U RADIAL 4.433619MHZ
Z101	166-A01M	FILTER,0FWK6265K(MONO)
SUB(TELETEXT) BOARD		

LOCA. NO	PART NO	DESCRIPTION
IC701	0IPH528100F	SAA5281ZP/E 52P,SDIP BK WEST
"	0IPH528100K	SAA5281ZP/K 52P,SDIP
IC702	0IKE780500K	KIA7805PI 3P(TO-220IS) 5V,1A
Q701	0TR945009AA	KSC945C-Y TP SAMSUNG
C702	0CN1030F679	10000P 16V M
C703	0CE107DD618	100UF STD 10V M
C704	0CX1800K409	18P 50V J
C705	0CX8R20K509	8.2P 50V K
C706	0CN1040K949	0.1M 50V Z
C707	181-442Z	ECQ-B1H104KF3(TR)
C708	181-442Z	ECQ-B1H104KF3(TR)
C709	181-442Z	ECQ-B1H104KF3(TR)
C710	0CN1030F679	10000P 16V M
C711	0CE476DD618	47UF STD 10V M
C712	0CE476DD618	47UF STD 10V M
C713	0CN1020K519	1000P 50V K
L701	0LA0331K119	INDUCTOR,3.3UH K
R702	0RD3301F609	3.3K 1/6W 5 TA52
R703	0RD2702F609	27K 1/6W 5 TA52
R704	0RD1002F609	10K 1/6W 5 TA52
R705	0RD1601F609	1.6K 1/6W 5 TA52
R706	0RD1601F609	1.6K 1/6W 5 TA52
R707	0RD1601F609	1.6K 1/6W 5 TA52
R708	0RD1601F609	1.6K 1/6W 5 TA52
R709	0RD1601F609	1.6K 1/6W 5 TA52
R710	0RD1601F609	1.6K 1/6W 5 TA52
R711	0RD1001F609	1.0K 1/6W 5 TA52
R712	0RD8200F609	820 1/6W 5 TA52
R713	0RD1000F609	100 1/6W 5 TA52
R715	0RD1000F609	100 1/6W 5 TA52
R716	0RD1000F609	100 1/6W 5 TA52
R717	0RD4700F609	470 1/6W 5 TA52
R718	0RD2200F609	220 1/6W 5 TA52
R719	0RD1001F609	1.0K 1/6W 5 TA52
X701	156-A02X	CRYSTAL,HC49U SUNNY RADIAL 27MHZ
SUB(AV STEREO) BOARD		
ICS01	0ISG742900A	IC,TDA7429 42P,SDIP BK DIGITAL
CS01	0CQ2231N509	0.022U 100V K
CS02	0CQ2231N509	0.022U 100V K
CS03	0CQ4721N509	0.0047U 100V K
CS04	181-442Z	ECQ-B1H104KF3(TR)
CS05	0CQ1221N419	0.0012U 100V J
CS06	0CQ5621N509	0.0056U 100V K
CS07	181-007J	ECQ-V1H564JZ3(TR),50V 0.5
CS08	0CE2251K636	2.2000UF SM 50V M
CS09	0CE2251K636	2.2000UF SM 50V M
CS10	0CE2251K636	2.2000UF SM 50V M
CS11	181-442Z	ECQ-B1H104KF3(TR)
CS12	181-442Z	ECQ-B1H104KF3(TR)
CS13	181-442Z	ECQ-B1H104KF3(TR)
CS14	181-442Z	ECQ-B1H104KF3(TR)

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LOCA. NO	PART NO	DESCRIPTION
CS15	0CQ2231N509	0.022U 100V K
CS16	0CQ1831N509	0.018U 100V K
CS17	0CQ2231N509	0.022U 100V K
CS18	0CQ1831N509	0.018U 100V K
CS19	0CQ5621N509	0.0056U 100V K
CS20	0CQ5621N509	0.0056U 100V K
CS21	0CE474DK618	0.4700UF STD 50V M
CS22	181-007H	ECQ-V1H474JZ3(TR),50V 0.4
CS23	0CE474DK618	0.4700UF STD 50V M
CS25	181-007H	ECQ-V1H474JZ3(TR),50V 0.4
CS26	181-007H	ECQ-V1H474JZ3(TR),50V 0.4
CS27	0CE226DF618	22UF STD 16V M
CS28	0CE106DF618	10UF STD 16V M
CS29	0CN1040K949	0.1M 50V Z F TA52
LS01	0LA0102K119	INDUCTOR,10UH K
RS01	0RD5601F609	5.6K 1/6W 5 TA52
RS02	0RD5601F609	5.6K 1/6W 5 TA52
RS03	0RD2701F609	2.7K 1/6W 5 TA52
RS04	0RD2701F609	2.7K 1/6W 5 TA52
RS05	0RD1000F609	100 1/6W 5 TA52
RS06	0RD1000F609	100 1/6W 5 TA52

SUB(RF STEREO) BOARD

ICN01	0ITF447200B	TDA4472M 28,SDIP BK
ICN02	0IKE780500K	KIA7805PI 3P(TO-220IS) 5V,1A
ICN03	0IIT341000H	MSP3410D 52P,SDIP BK B4-VERSIO
ICN04	0ISS754200A	KA7542Z RESET TO92 TP 4.2V
ICN05	0IKE780500P	KIA78L05BP(AT) 3P 5V
QN01	0TR733009AA	KSA733C-Y TP SANSUNG
QN02	0TR733009AA	KSA733C-Y TP SANSUNG
CN01	0CE106DF618	10UF STD 16V M
CN02	0CE225DK618	2.2UF STD 50V M
CN03	0CE107DD618	100UF STD 10V M
CN04	0CE227DD618	220UF STD 10V M
CN05	0CN1030F679	10000P 16V M
CN06	0CE335DK618	3.3000UF STD 50V M
CN07	0CN1030F679	10000P 16V M
CN08	0CN1030F679	10000P 16V M
CN09	0CE225DK618	2.2UF STD 50V M
CN10	0CE227DD618	220UF STD 10V M
CN11	0CN1030F679	10000P 16V M
CN12	0CQ3321N509	0.0033U 100V K
CN13	0CQ3321N509	0.0033U 100V K
CN14	0CE106DF618	10UF STD 16V M
CN15	0CN1030F679	10000P 16V M
CN16	0CE107DD618	100UF STD 10V M
CN17	0CE106DF618	10UF STD 16V M
CN18	0CN1030F679	10000P 16V M
CN19	0CE106DF618	10UF STD 16V M
CN20	0CN1040K949	0.1M 50V Z
CN21	181-007H	ECQ-V1H474JZ3
CN22	181-007G	ECQ-V1H334JZ3(TR),50V 0.3

LOCA. NO	PART NO	DESCRIPTION
CN23	181-007G	ECQ-V1H334JZ3(TR),50V 0.3
CN24	181-007G	ECQ-V1H334JZ3(TR),50V 0.3
CN25	181-007G	ECQ-V1H334JZ3(TR),50V 0.3
CN26	0CE106DF618	10UF STD 16V M
CN27	0CN1030F679	10000P 16V M
CN28	0CN1030F679	10000P 16V M
CN29	0CN1030F679	10000P 16V M
CN30	0CE106DF618	10UF STD 16V M
CN31	0CX4700K409	47P 50V J
CN32	0CX5600K409	56P 50V J
CN33	0CN4710K519	470P 50V K
CN34	0CC0200K115	2P 50V D
CN35	0CC0200K115	2P 50V D
CN36	0CE226DF618	22UF STD 16V M
CN37	0CX3000K409	30P 50V J
CN39	0CE107DF618	100UF STD 16V M
CN40	0CN1030F679	10000P 16V M
CN41	0CN1030F679	10000P 16V M
LN01	150-E16B	COIL,IFT VAR,07S 1B 38.0MHZ
LN03	0LA0102K139	INDUCTOR,10UH K
LN04	0LA0102K139	INDUCTOR,10UH K
RN01	0RD5601F609	5.6K 1/6W 5
RN02	0RD4301F609	4.3K 1/6W 5 TA52
RN03	0RD1000F609	100 1/6W 5 TA52
RN04	0RD1000F609	100 1/6W 5 TA52
RN05	0RD1002F609	10K 1/6W 5 TA52
RN06	0RD1001F609	1.0K 1/6W 5 TA52
RN07	0RD1001F609	1.0K 1/6W 5 TA52
RN08	0RD1001F609	1.0K 1/6W 5 TA52
RN09	0RD1001F609	1.0K 1/6W 5 TA52
RN10	0RD2702F609	27K 1/6W 5 TA52
RN11	0RD1500F609	150 1/6W 5 TA52
RN12	0RD4701F609	4.70K 1/6W 5% TA52
RN13	0RD3901F609	3.9K 1/6W 5 TA52
RN14	0RD3901F609	3.9K 1/6W 5 TA52
RN15	0RD0102F609	10 1/6W 5 TA52
RN16	0RD1001F609	1.0K 1/6W 5 TA52
RN18	0RD2200F609	220 1/6W 5 TA52
RN19	0RD0332H609	33 1/2W 5 TA52
XN01	156-A02M	CRYSTAL,HC49U RADIAL 18.432MHZ 30P
ZN01	166-250C	FILTER,0FWG3962M
ZN02	166-A01F	FILTER,SAF32.5MCD80Z
ZDN01	0DZ510009AB	DIODE,ZENER MTZ5.1B

ACCESSORIES

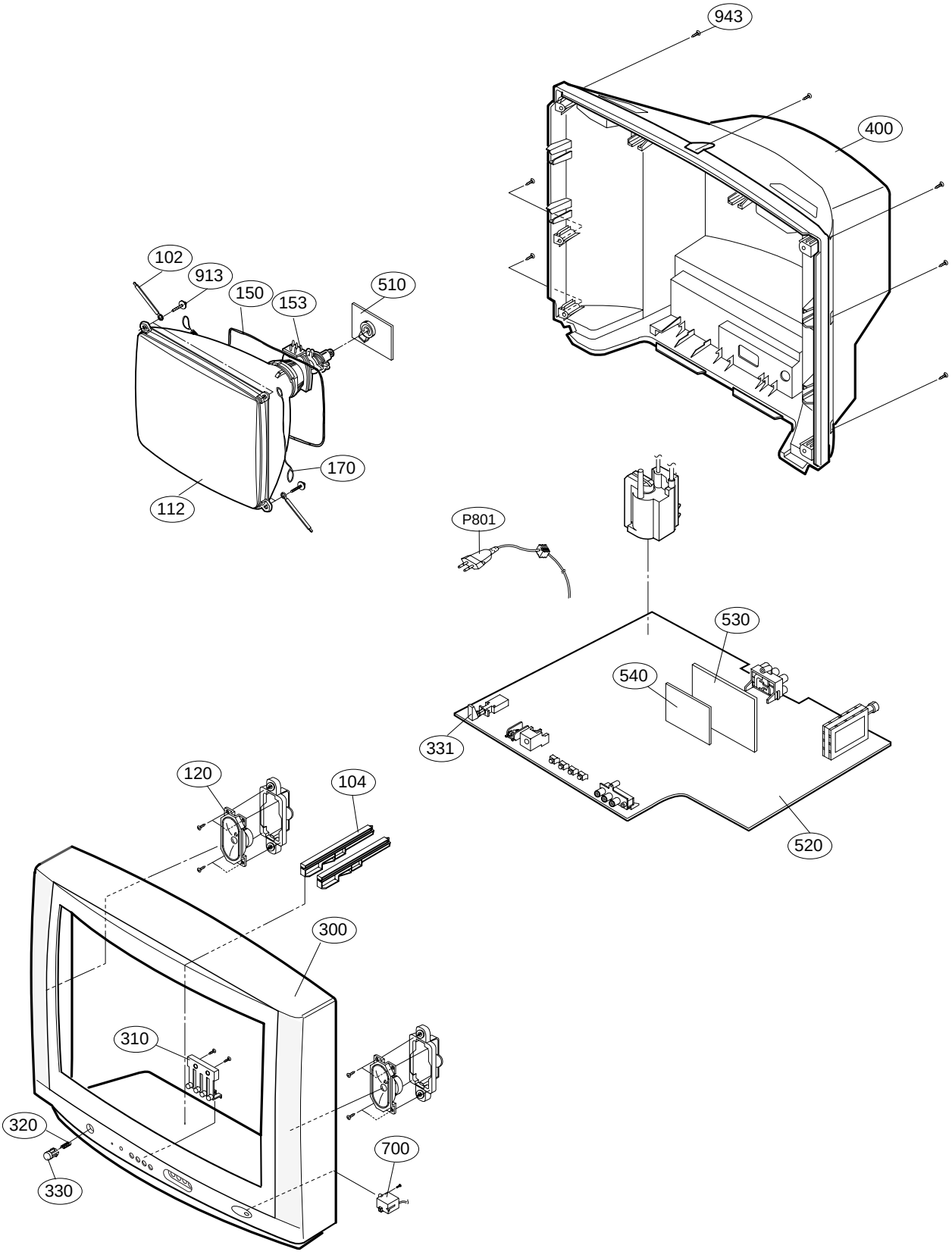
A1	3828VA0179A	MANUAL,OWNERS,LG EN 007K
A1	3828VA0179B	MANUAL,OWNERS,LG EN 007K,017E/F/G/H,
A1	3828VA0179E	MANUAL,OWNERS,LG EN/FR
A1	3828VA0179F	MANUAL,OWNERS,LG EN/AR
A1	3828VA0179J	MANUAL,OWNERS,RNK,LG,EN
A2	6710V00007K	REMOTE CONTROLLER(TXT,EYE,STEREO,MODE)
A2	6710V00007H	REMOTE CONTROLLER(EYE,STEREO)

The components identified by mark ⚠ is critical for safety.
Replace only with part number specified.

LOCA. NO	PART NO	DESCRIPTION
A2	6710V00007G	REMOTE CONTROLLER(W/O EYE,STEREO)
A2	6710V00008Q	REMOTE CONTROLLER(W/ EYE,TXT,STEREO)
A2	6710V00008P	REMOTE CONTROLLER(W/ OEYE/TXT,STEREO)
		MISCELLANEOUS
	351-012A	LINK,POWER S/W
	351-008A	LINK,POWER S/W
LD01	4930V00048A	HOLDER,LED ASSY
LD1101	4930V00048A	HOLDER,LED ASSY
⚠ P901	6620VBC001A	SOCKET,CPT 29.1 PHI SINGLE(PCS629-03A)
PA01	106-047G	PRE-AMP,SBX2020-82 SONY 38.0KHZ MESH
PJ1101	6613V00004B	JACK ASSY,3P
PJ201	6612VJH011A	JACK,RCA PPJ109A A/V IN/OUT
"	6612VMH001A	JACK,SCART UPJ-R1-018
PJ241	6613V00006A	JACK ASSY,3P+EAR(PJ6062A)
⚠ RL801	6920VB1001B	RELAY,LK1AF-12V
SG901	165-004A	SPARK GAP,AG20PT 152F-L3N/S-23
SG902	165-004A	SPARK GAP,AG20PT 152F-L3N/S-23
⚠ T406	6174Z-6012A	FBT,FTMPN51-T6012A
⚠ TH801	163-051F	THERMISTOR,J503P84D140M290Q
TU101	6700VPF003B	TUNER,TU8PSB02D LGEC PAL DIN 38.0MHZ
VD801	164-003D	VARISTOR,SVC 561D-14A
VDP801	164-003D	VARISTOR,SVC 561D-14A
X01	166-E05D	RESONATOR,CSTS0800MG03-T2 MURATA 8.0MHZ

LOCA. NO	PART NO	DESCRIPTION

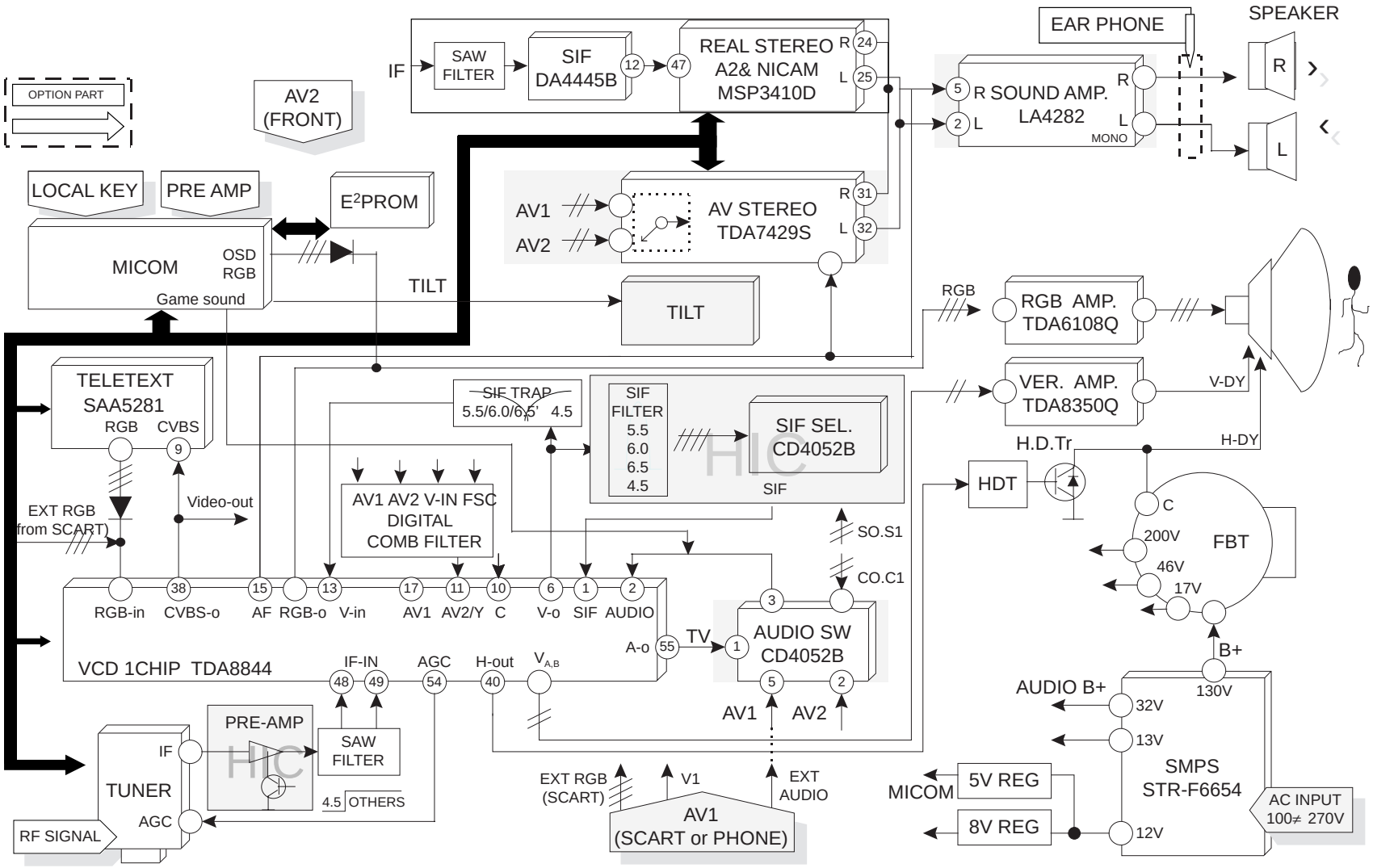
EXPLODED VIEW(CT-29K30E/ET/EX/EN)



EXPLODED VIEW PARTS LIST

The components identified by mark ⚠ is critical for safety.
Replace only with part number specified.

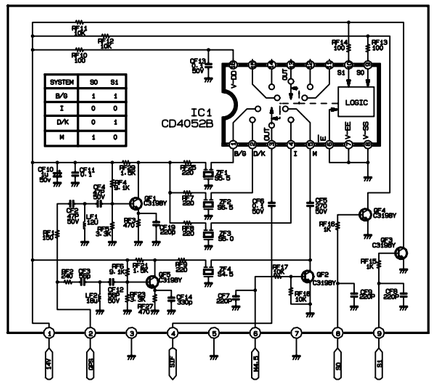
LOCA. NO	PART NO	DESCRIPTIONS
102	341-919C	HOLDER,D-COIL
104	343-B52B	SUPPORTER
⚠ 112	6341V29002B	BARE CPT ASSY,PA2,D/TINT,SOUTH,NTSC
	6341V29002A	BARE CPT ASSY,PA2,D/TINT,NORTH
	2426GF120CJ	CPT SET,A68QBC230X 01R7KT * S&E
	2426GF120CF	CPT SET,A68QBC230X 01M7KT * MEI-JDN
	2426GF120CH	CPT SET,A68QBC230X 00M7KD * LGEMT
120	120-C77G	SPEAKER,GENERAL C122P02K1459 8OHM 10
⚠ 150	150-201T	COIL,DEGAUSSING *LGEAP
	6140VC2001B	COIL,DEGAUSSING,CU 29” 60TURN 8.7OHM
⚠ 153	6150Z-1043M	DY,DC29SPPA2
⚠ 170	170-844D	CPT EARTH
300	3091V00161A	CABINET ASSY
	3091V00161E	CABINET ASSY *RANKINE
310	5020V00296A	BUTTON,CONTROL
320	320-062H	SPRING,COIL
330	5020V00297A	BUTTON,POWER
331	6600VM2001A	SWITCH,PUSH POWER
400	3809V00119A	BACK COVER ASSY
	3809V00119B	BACK COVER ASSY(LGEAP)
	3809V00119E	BACK COVER ASSY(RANKINE)
520	6871VMM286E	PWB ASSY,MAIN 8CB 29K30ET *LGEAP
	6871VMM286F	PWB ASSY,MAIN 8CB 29K30E *LGEAP
	6871VMM286G	PWB ASSY,MAIN 8CB 29K30ET *ABANS,LGEIN
	6871VMM286L	PWB ASSY,MAIN 8CB 29K30EX *S&E
	6871VMM301F	PWB ASSY,MAIN 8CB 29K30EN *LGEMT
	6871VMM351B	PWB ASSY,MAIN 8CB 29K30ET *RANKINE
	6871VMM368B	PWB ASSY,MAIN 8CB 29K30ET *N.ALLIED,LGEGF
	6871VMM368C	PWB ASSY,MAIN 8CB 29K30E *BROTHERS
	6871VMM351H	PWB ASSY,MAIN 8CB 29K30 * LGEIN
530	6871VSM341A	PWB ASSY,RF STEREO MC-8CB NICAM
	6871VSM202A	PWB ASSY,AV STEREO
540	6871VSM201A	PWB ASSY,TXT
	6871VSM201D	PWB ASSY,TXT(P/K)
700	0IGL120104A	IC,CDS SENSOR MODULE(P1201-04)
913	332-229A	SCREW ASSY,HEXAGON HEAD
943	1PTF0403116	SCREW,TAP TITE D4.0 L16.0
⚠ P801	174-222Q	POWER CORD ASSY(SAA L=2200MM)*LGEAP
	174-009Q	CORD,POWER(W/HOLD,HOUSING)


OPTION PART
AV2 (FRONT)
IF
SAW FILTER
SIF DA4445B
REAL STEREO A2& NICAM MSP3410D
EAR PHONE
SPEAKER
R SOUND AMP. LA4282
MONO
LOCAL KEY
PRE AMP
E²PROM
MICOM
OSD RGB
Game sound
TILT
AV1
AV2
AV STEREO TDA7429S
RGB
RGB AMP. TDA6108Q
VER. AMP. TDA8350Q
V-DY
H-DY
H.D.Tr
HDT
FBT
TELETEXT SAA5281
RGB CVBS
SIF TRAP 5.5/6.0/6.5' 4.5
SIF FILTER 5.5 6.0 6.5 4.5
SIF SEL. CD4052B
SIF
EXT RGB (from SCART)
Video-out
AV1 AV2 V-IN FSC DIGITAL COMB FILTER
SO.S1
CO.C1
RGB-in CVBS-o AF RGB-o V-in AV1 AV2/Y C V-o SIF AUDIO
A-o
TV
AUDIO SW CD4052B
VCD 1CHIP TDA8844
IF-IN AGC H-out V_A,B
AV1 AV2
B+
AUDIO B+
32V
13V
130V
SMPS STR-F6654
AC INPUT 100≠ 270V
PRE-AMP
SAW FILTER
TUNER
IF
AGC
RF SIGNAL
4.5 OTHERS
EXT RGB (SCART)
V1
EXT AUDIO
AV1 (SCART or PHONE)
MICOM
5V REG
8V REG
12V

<MC-8CB MODULE & HIC CIRCUIT DIAGRAM>

HIC

<SIF SWITCH>



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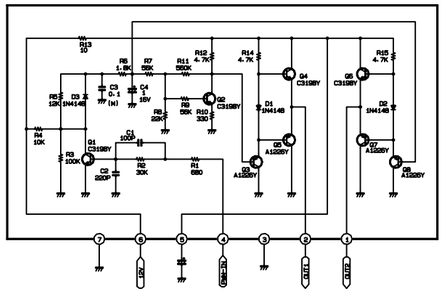

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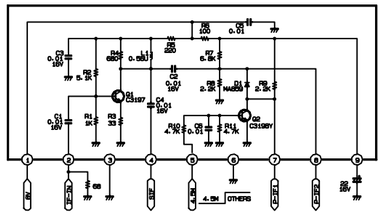
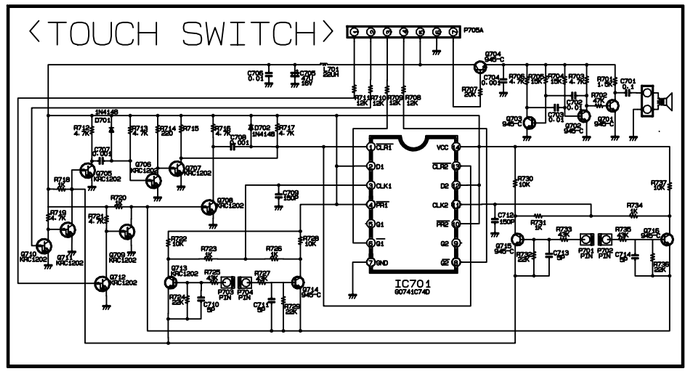
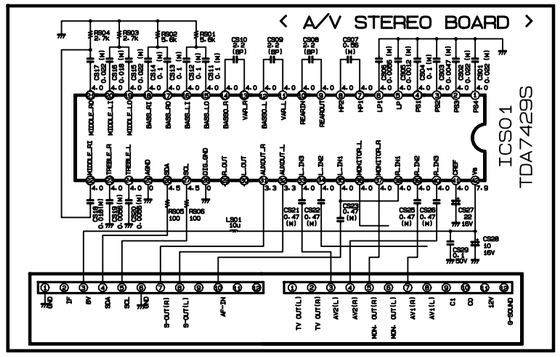


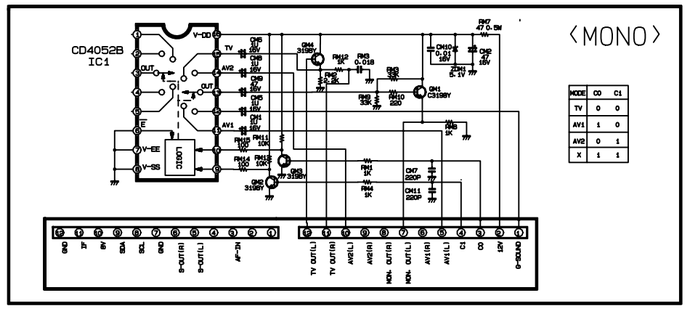
<TOUCH SWITCH>



< A/V STEREO BOARD >



<MONO>



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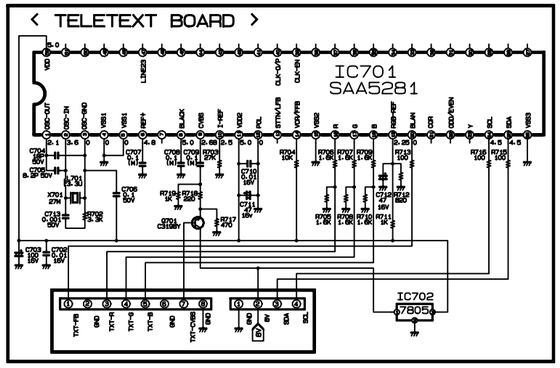
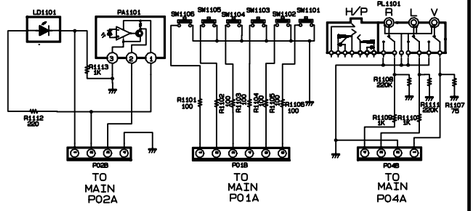
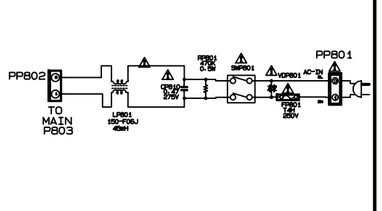


CONTROL



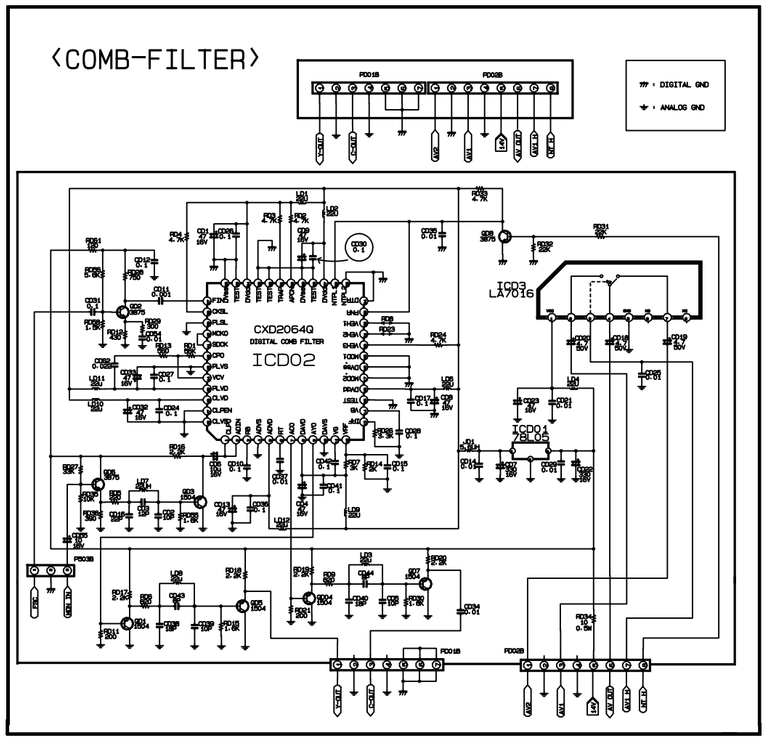
H30

SUBPOWER

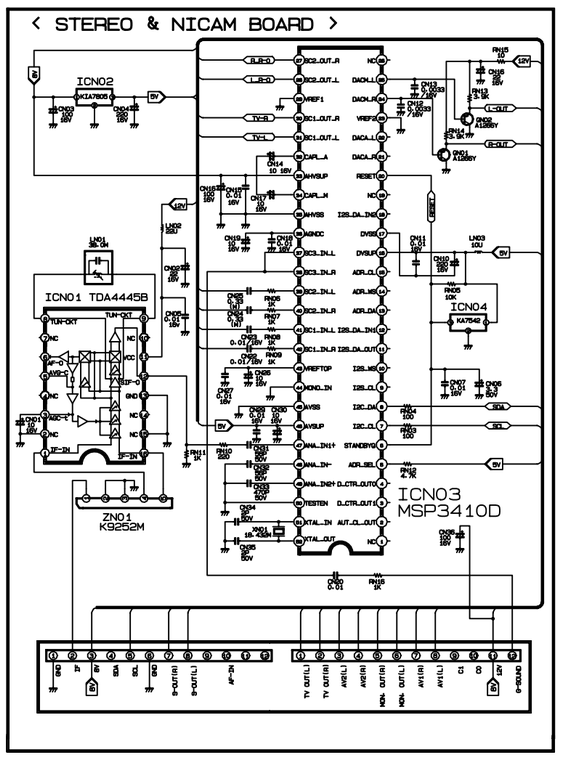


H30

<COMB-FILTER>

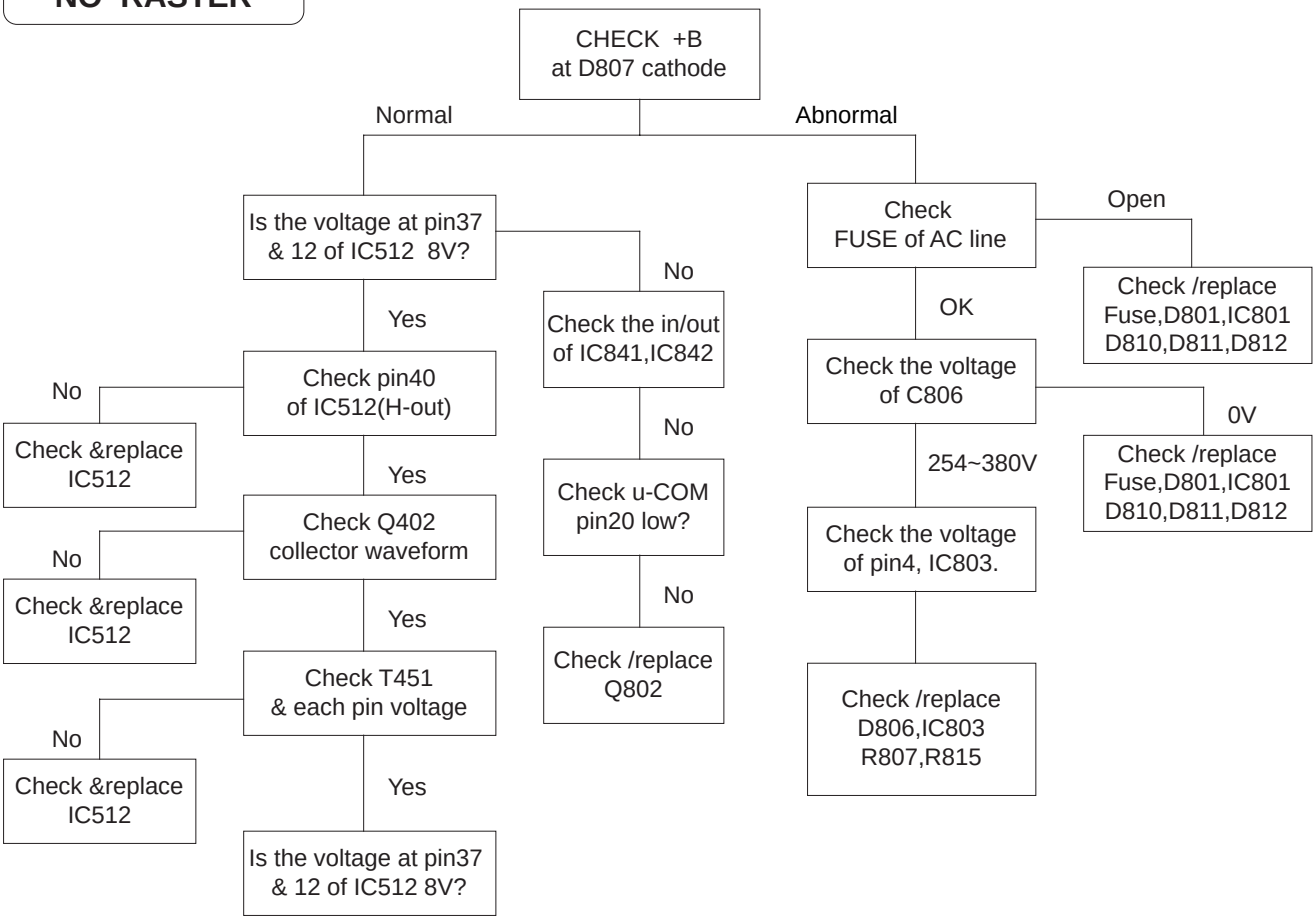


< STEREO & NICAM BOARD >



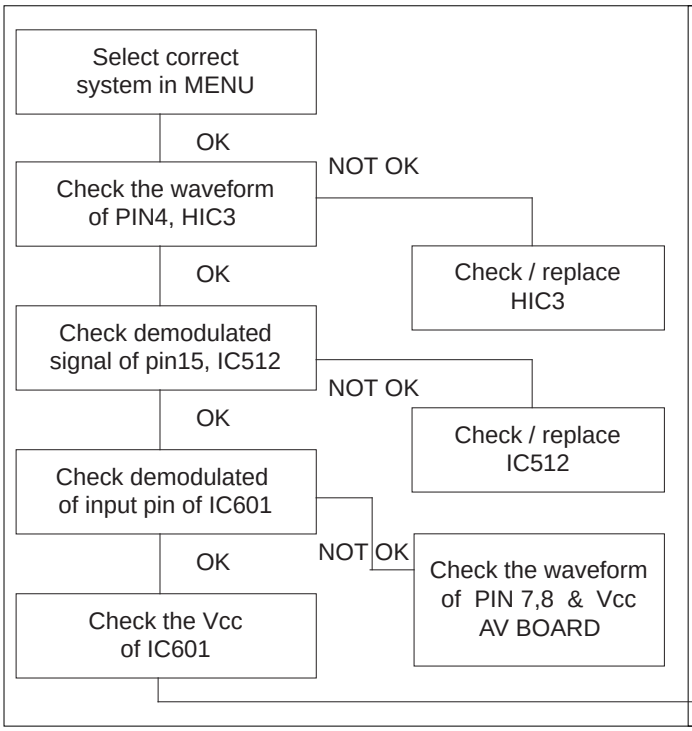
CIRCUIT DIAGRAM
MC-8CB
3854VA0050A-2

NO RASTER

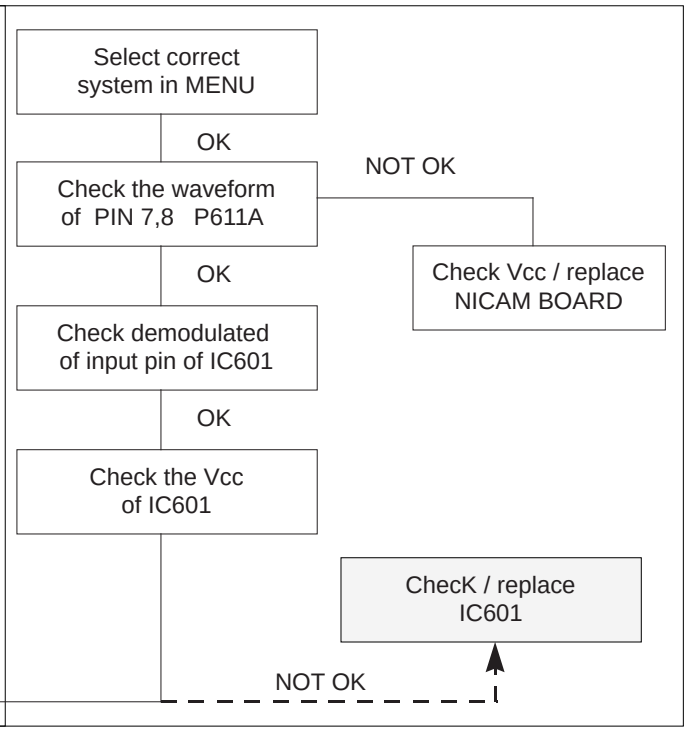

CHECK +B
at D807 cathode
Normal
Abnormal
Is the voltage at pin37
& 12 of IC512 8V?
No
Check the in/out
of IC841,IC842
No
Check u-COM
pin20 low?
No
Check /replace
Q802
Yes
Check pin40
of IC512(H-out)
No
Check &replace
IC512
Yes
Check Q402
collector waveform
No
Check &replace
IC512
Yes
Check T451
& each pin voltage
No
Check &replace
IC512
Yes
Is the voltage at pin37
& 12 of IC512 8V?
Check
FUSE of AC line
Open
Check /replace
Fuse,D801,IC801
D810,D811,D812
OK
Check the voltage
of C806
0V
Check /replace
Fuse,D801,IC801
D810,D811,D812
254~380V
Check the voltage
of pin4, IC803.
Check /replace
D806,IC803
R807,R815

NO SOUND / PICTURE OK

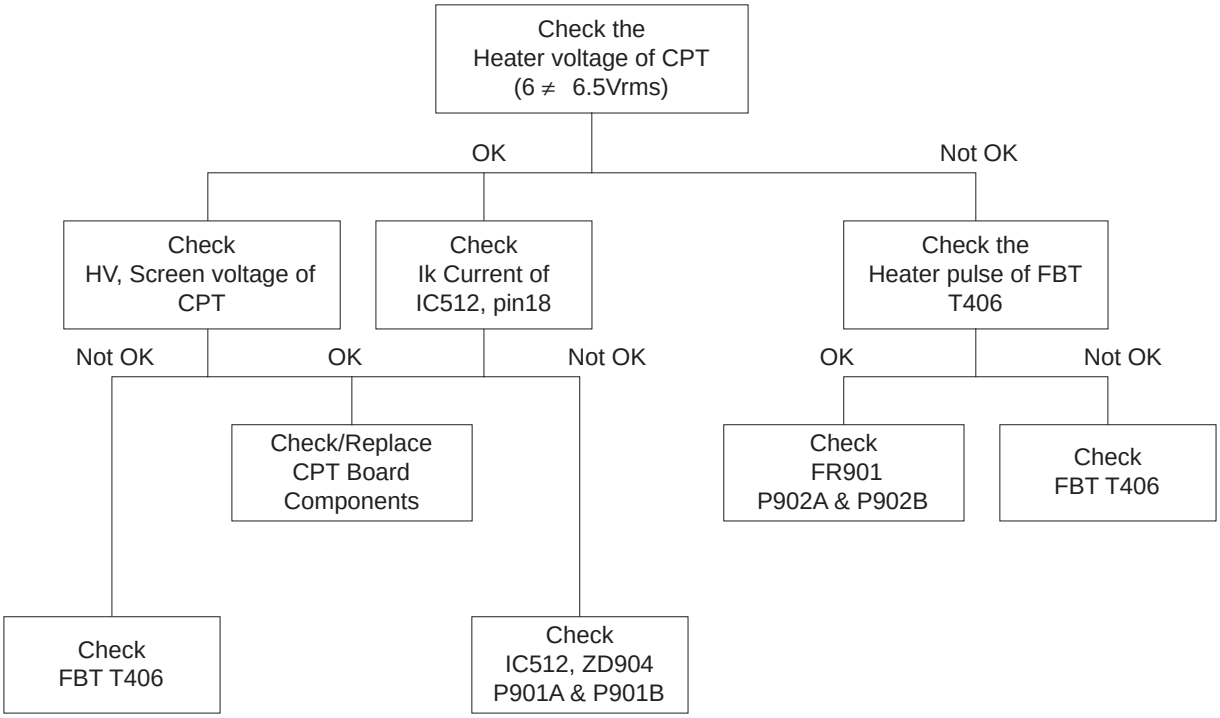
AV STEREO MODEL



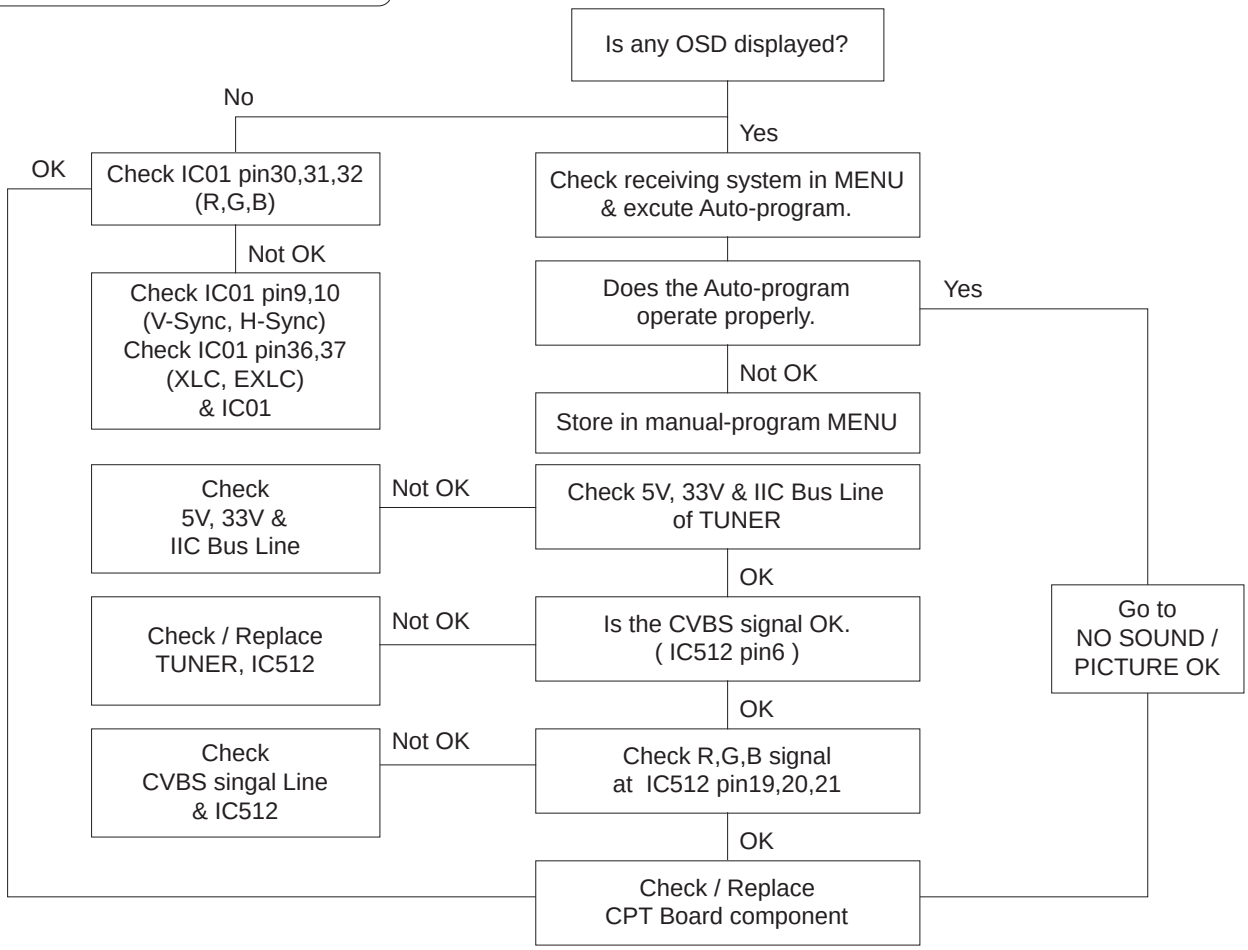
NICAM STEREO MODEL



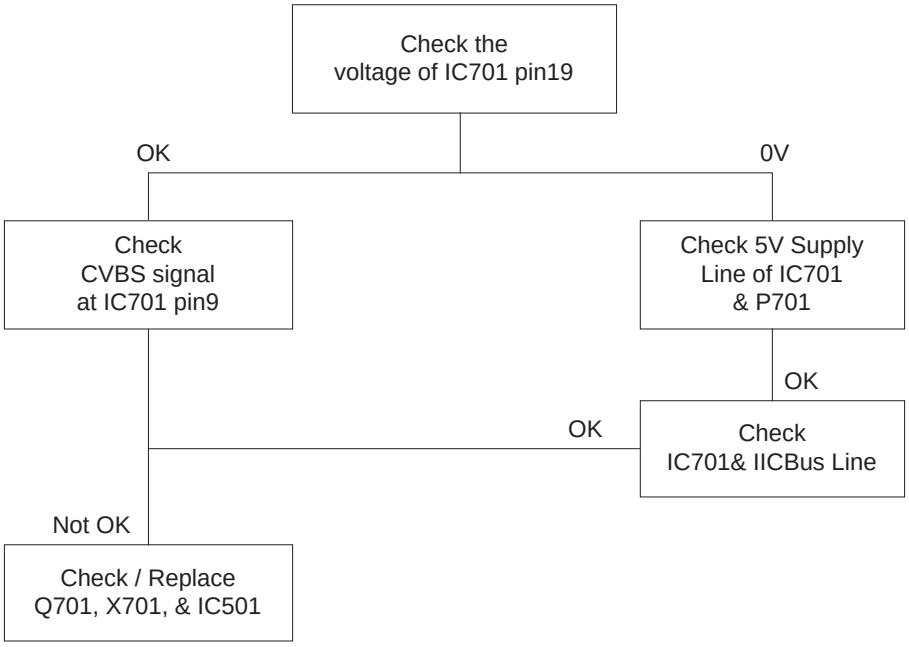
NO RASTER / SOUND OK



NO PICTURE / NO SONUD



NO TELETEXT


Check the
voltage of IC701 pin19
OK
0V
Check
CVBS signal
at IC701 pin9
Check 5V Supply
Line of IC701
& P701
OK
OK
Check
IC701& IICBus Line
Not OK
Check / Replace
Q701, X701, & IC501